

GENERAL NOTES:

CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEEPED ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.

PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH IDEM AND CITY OF INDIANAPOLIS REQUIREMENTS.

ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH SPECIFICATIONS.

UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT QUALITY STANDARDS, INDIANA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND/OR THE CITY OF INDIANAPOLIS REQUIREMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, AND LICENSE FEES, UNLESS NOTED OTHERWISE.

RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER BEFORE ANY UTILITY RELOCATION.

ELECTRONIC FILES IN DWG FORMAT WILL BE SUPPLIED TO THE CONSTRUCTION MANAGER FOR LAYOUT AND GRADING.

LOCAL UTILITY LOCATING AGENCY:

ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) AND CALL LOCAL UTILITY LOCATING AGENCY AT 811.

EXISTING UTILITY LOCATIONS SHOWN SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

SURVEY:

EXISTING TOPOGRAPHY IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY WOOLPERT, INC., IN FRANKLIN, IN, LAST UPDATED ON 08/09/14.

ENVIRONMENTAL:

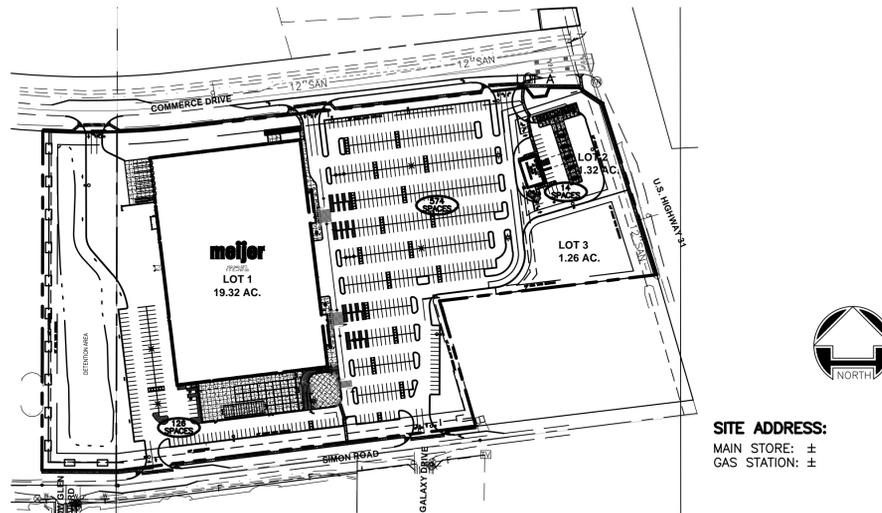
REFER TO PHASE I ENVIRONMENTAL SITE ASSESSMENT PREPARED BY PM ENVIRONMENTAL, INC., DATED 09/15/14.

meijer

Store FRK

Construction Plans

SECTION 10, TOWNSHIP 12NORTH, RANGE 4 EAST
CITY OF FRANKLIN, FRANKLIN TOWNSHIP,
JOHNSON COUNTY, INDIANA



SITE ADDRESS:
MAIN STORE: ±
GAS STATION: ±

C1 GENERAL NOTES

ABBREVIATIONS

ARCH - ARCHITECTURAL	MAT'L - MATERIAL
BM - BENCHMARK	MECH - MECHANICAL
BIT - BITUMINOUS PAVING	O.C. - ON CENTER
C - CONDUIT	P.C. - POINT OF CURVATURE
CAL - CALIPER	PE - POLYETHYLENE
CB - CATCH BASIN	P.S.I. - POUNDS PER SQUARE INCH
CONC - CONCRETE	PT - POINT OF TANGENCY
C.I. - CURB ISLAND	PVC - POLYVINYL CHLORIDE
CIR - CIRCUIT	PVMT - PAVEMENT
DA - DIAMETER	R - RADIUS
ELEV - ELEVATION	RE - REFERENCE
EQ - EQUIVALENT	RCR - REINFORCED CONCRETE PIPE
ES - END SECTION	REQ'D - REQUIRED
FH - FIRE HYDRANT	R.O.W. - RIGHT OF WAY
FF - FINISHED FLOOR	SB - SOIL BORING
GV&BOX - GATE VALVE AND BOX	SQ - SQUARE
GND - GROUND	STRUC - STRUCTURAL
H.D. - HEAVY DUTY	TC - TOP OF CURB
IE - INVERT ELEVATION	TP - TOP OF PAVEMENT
L.D. - LIGHT DUTY	TS - TOP OF SLAB
LF - LINEAR FEET	UC - UTILITY CROSSING
MAX - MAXIMUM	UD - UNDERDRAIN
MIN - MINIMUM	WWF - WELDED WIRE FABRIC
MH - MANHOLE	

LEGEND

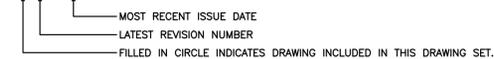
	EXISTING MAJOR CONTOUR		SANITARY SEWER & MANHOLE
	EXISTING MINOR CONTOUR		WYE & LEAD
	NEW MINOR CONTOUR		RISER & LEAD
	CENTER OF DITCH		STANDARD SEWER CLEANOUT
	LOT LINE (AS PLATTED)		STORM SEWER & MANHOLE
	R.O.W. LINE		CATCH BASIN WITH EROSION CONTROL
	SECTION LINE		UNDERDRAIN
	FENCE		WATER MAIN
	GRAVEL SURFACE		VALVE & BOX
	PAVED SURFACE		METER
	EXISTING CURB & GUTTER		PLUG
	PROPOSED CURB & GUTTER		STANDARD FIRE HYDRANT ASSEMBLY
	TURN DOWN CONCRETE SLAB		CURB STOP & BOX
	SIGN		GAS MAIN
	SITE LIGHT POLES		UNDERGROUND ELECTRIC
	BENCH MARK		UNDERGROUND TELEPHONE
	SECTION CORNER		TELEPHONE PEDESTAL
	EASEMENT LINE		CONCRETE SLAB
	PROPOSED ELEVATION		HEAVY DUTY ASPHALT
	PROPOSED PAVEMENT MARKING (PAINTING)		LIGHT DUTY ASPHALT
	PROPOSED BARRIER FREE PARKING		

B2 OVERALL SITE

RETAIL STORE DRAWING LIST (DS1.9)

	C001	COVER SHEET
	1 of 2	ALTA/ACSM LAND TITLE SURVEY
	2 of 2	ALTA/ACSM LAND TITLE SURVEY
	C100	EXISTING CONDITIONS/DEMOLITION PLAN
	C200	SITE LAYOUT / PAVEMENT PLAN
	C201	SITE LAYOUT / PAVEMENT PLAN
	C300	SITE GRADING/DRAINAGE PLAN
	C301	SITE GRADING/DRAINAGE PLAN
	C302	STORM WATER POLLUTION PREVENTION PLAN
	C303	STORM WATER POLLUTION PREVENTION PLAN
	C304	EROSION CONTROL DETAILS
	C305	EROSION CONTROL DETAILS
	C400	UTILITY PLAN
	C401	UTILITY PLAN
	C402	STRUCTURE DATA TABLES
	C403	STORM SEWER PROFILES
	C500	STRIPING / SIGNAGE PLAN
	C501	EXTERIOR SIGNAGE PLAN AND DETAILS
	C502	EXTERIOR SIGNAGE PLAN AND DETAILS
	C600	LANDSCAPE PLAN
	C601	LANDSCAPE DETAILS
	C700	DETAILS
	C701	DETAILS
	C702	DETAILS
	C703	DETAILS
	C704	DETAILS
	C705	CITY OF FRANKLIN DETAILS
	C800	SITE ELECTRICAL PLAN
	C801	SITE PHOTOMETRIC PLAN
	C802	SITE ELECTRICAL DETAILS

SHEET INDEX LEGEND



A1 LEGEND / ABBREVIATIONS

A2 SHEET INDEX



C5 VICINITY MAP

ZONING

CITY OF FRANKLIN PLANNING DEPARTMENT
JOANNA MYERS
70 EAST MONROE STREET
FRANKLIN, INDIANA 46131
317.736.3631 X1252

UTILITIES

FRANKLIN DEPARTMENT OF PUBLIC WORKS (SANITARY)
RICHARD DEWITT
796 SOUTH STATE STREET
FRANKLIN, INDIANA 46131
888.736.3640

INDIANA-AMERICAN WATER COMPANY (WATER)

TROY BRYANT
555 EAST COUNTY LINE ROAD
GREENWOOD, INDIANA 46143
317.264.7718

FIRE

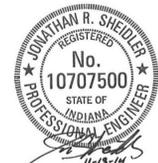
CITY OF FRANKLIN FIRE DEPARTMENT
FIRE CHIEF
JOHN HENDERSON
1800 THORNBERG LANE
FRANKLIN, INDIANA 46131
317.736.3650 X1200

GAS

VECTREN
DAVID SHERRY
600 INDUSTRIAL DRIVE
FRANKLIN, INDIANA 46131
866.203.4284

TELEPHONE

AT&T
ELECTRIC
DUKE ENERGY
GARY MCNAMEE
2515 NORTH MORTON STREET
FRANKLIN, INDIANA 46131
812.375.2021



PERMIT SET - NOT FOR CONSTRUCTION



STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
DESIGN | GEOGRAPHICAL | INFRASTRUCTURE
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

COVER SHEET

DRAWN BY: KAC	ISSUE: 1	ISSUE DATE: 11/13/14	SHEET NO.: C001
CHECKED BY: BJH	MEIJER PROJECT NO.:	WOOLPERT PROJECT NO.:	74485





PROJECT No.	DATE	SCALE	DES.	DR.	CKD.
74485	08/14/14	AS SHOWN	SRK	PTK	DNA

WOOLPERT, INC.
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.295.7500
FAX: 317.291.5805

WOOLPERT
DESIGN TECHNOLOGICAL ENTERPRISES

MEIJER, FRANKLIN, INDIANA
A PART OF THE NORTHEAST 1/4 AND THE NORTHWEST 1/4 OF SECTION 10,
TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE 2ND PRINCIPAL
MERIDIAN, JOHNSON COUNTY, INDIANA

ALTA/ACSM LAND TITLE SURVEY

AREA SCHEDULE:

PARCEL A: 848,051 S.F. OR 19.47 ACRES (MORE OR LESS)
PARCEL B: 145,200 S.F. OR 3.33 ACRES (MORE OR LESS)
TOTAL: 993,251 S.F. OR 22.80 ACRES (MORE OR LESS)

ZONING INFORMATION:

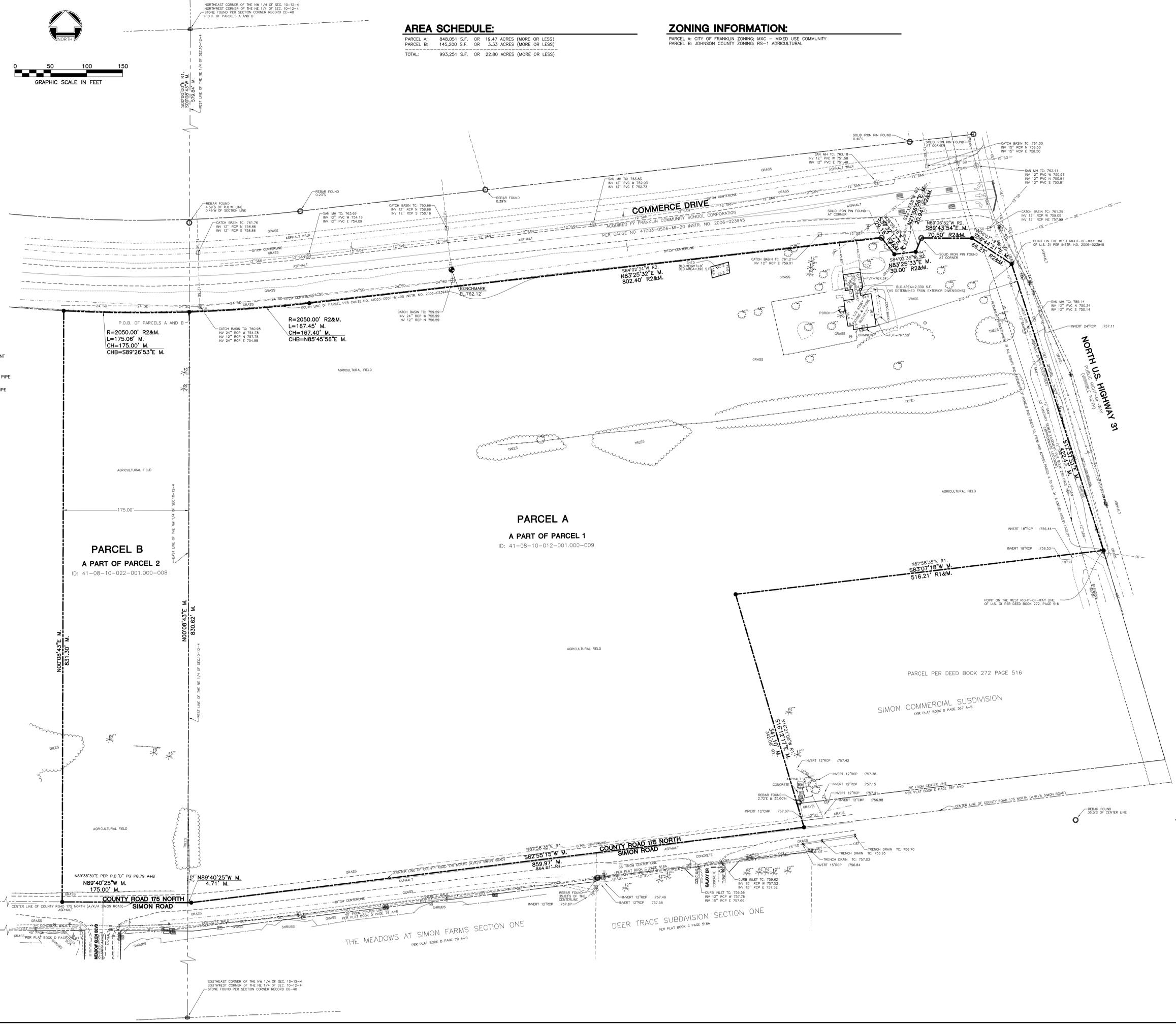
PARCEL A: CITY OF FRANKLIN ZONING: M/C - MIXED USE COMMUNITY
PARCEL B: JOHNSON COUNTY ZONING: RS-1 AGRICULTURAL



SITE MAP
NOT TO SCALE

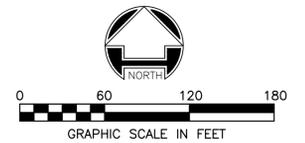
LEGEND:

- SURVEYED BOUNDARY
- LOT/PARCEL LINE
- RIGHT OF WAY LINE
- SETBACK LINE
- EXISTING EASEMENT LINE
- SECTION LINES
- SET R.R. SPIKE/NAIL IN ASPHALT OR IRON PIN W/CAP IN SOIL OR CUT CROSS IN CONCRETE
- SET CONCRETE MONUMENT
- REBAR FOUND
- IRON PIPE FOUND
- NAIL FOUND
- SPIKE FOUND
- CHISELED CROSS FOUND
- DRILL HOLE FOUND
- AERIAL CONTROL FOUND
- GPS MONUMENT FOUND
- STONE FOUND
- MONUMENT FOUND
- R/W MONUMENT FOUND
- HARBOR TOOTH FOUND
- CONCRETE MONUMENT FOUND
- BRASS PLUG FOUND
- BENCH MARK FOUND/SET
- POST
- FLAG POLE
- MAILBOX
- PARKING METER
- SIGN
- SOIL BORING
- MONITOR WELL
- TEST PIT
- BOLLARD
- SATELLITE DISH
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB
- BUMPING POST
- RR SIGNAL POLES
- RR CONTROL BOX
- SANITARY MANHOLE
- CLEANOUT
- LIFT STATION
- STORM MANHOLE
- INLET
- CURB INLET
- CATCH BASIN
- DOUBLE CURB INLET
- END SECTION
- GAS MANHOLE
- GAS VALVE
- GAS METER
- GAS REGULATOR
- ELECTRIC MANHOLE
- PULL BOX
- TRANSFORMER
- GROUND LIGHT
- ELECTRIC METER
- ELECTRIC PEDESTAL
- HANDHOLE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- CABLE TV PEDESTAL
- FIRE HYDRANT
- WATER VALVE
- WATER SERVICE
- PIV VALVE
- METER PIT
- SIAMESE CONNECTION
- FIRE DEPARTMENT CONNECTION
- WATER SPIGOT/HOSE BIBB
- WATER METER
- WATER MANHOLE
- WELL
- SPRINKLER HEAD
- SPRINKLER CONTROL VALVE
- WATER FOUNTAIN
- POWER POLE
- TELEPHONE POLE
- LIGHT POLE
- TRAFFIC SIGNAL POLE
- GROUND POST
- GUY POLE
- GUY WIRE
- AIR CONDITIONING UNIT
- TRAFFIC CONTROL BOX
- TRAFFIC PULL BOX
- TRAFFIC MANHOLE
- WATER LINE MARKER/PAINT/FLAG
- TELEPHONE LINE MARKER/PAINT/FLAG
- FIBER OPTIC LINE MARKER/PAINT/FLAG
- CABLE TV LINE MARKER/PAINT/FLAG
- ELECTRIC LINE MARKER/PAINT/FLAG
- GAS LINE MARKER/PAINT/FLAG
- SANITARY LINE MARKER/PAINT/FLAG
- STORM LINE MARKER/PAINT/FLAG
- GUARDRAIL
- WOOD FENCE
- IRON FENCE
- CHAIN LINK FENCE
- STONE FENCE
- OE --- OVERHEAD ELECTRIC
- OT --- OVERHEAD TELEPHONE
- OC --- OVERHEAD CABLE
- OET --- OVERHEAD ELECTRIC/TELEPHONE
- OEC --- OVERHEAD ELECTRIC/CABLE
- OTC --- OVERHEAD TELEPHONE/CABLE
- OETC --- OVERHEAD ELECTRIC/TELEPHONE/CABLE
- UE --- UNDERGROUND ELECTRIC
- UT --- UNDERGROUND TELEPHONE
- UC --- UNDERGROUND CABLE
- UET --- UNDERGROUND ELECTRIC/TELEPHONE
- UEC --- UNDERGROUND ELECTRIC/CABLE
- UTC --- UNDERGROUND TELEPHONE/CABLE
- UETC --- UNDERGROUND ELECTRIC/TELEPHONE/CABLE
- W --- WATER LINE
- FP --- FIRE PROTECTION LINE
- SAN --- SANITARY LINE
- SD --- STORM LINE
- T --- TREE LINE
- C --- CREEK



PARCEL A
A PART OF PARCEL 1
ID: 41-08-10-012-001.000-009

PARCEL B
A PART OF PARCEL 2
ID: 41-08-10-022-001.000-008



- GENERAL NOTES**
- EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE PRESENCE, LOCATION AND DEPTH OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. COORDINATE ANY EXCAVATION, RELOCATION WITH RESPECTIVE UTILITY COMPANIES. DO NOT INTERRUPT EXISTING UTILITIES IN USE, DURING OCCUPIED HOURS, EXCEPT WHEN PERMITTING. COORDINATE RELOCATIONS WITH ENGINEER.
 - EXISTING ELECTRIC AND TELEPHONE LINES SHOWN TO BE REMOVED THAT ARE LOCATED OUTSIDE THE LIMITS OF PROPOSED PAVEMENT MAY BE CUT AND ABANDONED IN PLACE. COORDINATE WITH UTILITY COMPANIES.
 - ALL COSTS INCURRED IN COORDINATION OF ALL NEW UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE REMOVAL AND DEMOLITION OF EXISTING FACILITIES ARE THE CONTRACTOR'S RESPONSIBILITY.
 - ALL EXISTING ASPHALT/CONCRETE PAVEMENTS, TREES AND BRUSH ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN A LEGAL MANNER IN ACCORDANCE WITH LOCAL REGULATIONS.
 - REMOVAL OF EXISTING CONCRETE AND ASPHALT PAVEMENT INDICATED ON PLANS SHALL INCLUDE ALL BASE MATERIALS TO EXISTING SUBGRADE. SAWCUT ALL EXISTING PAVED AREAS SHOWN TO BE REMOVED. ALL CUTS SHALL BE CLEAN, NEAT AND TRUE TO LINE.
 - ROAD, ROAD SHOULDERS, ROAD PAVEMENT, PARKING PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, STREET AND PUBLIC SIGNS, ADVERTISEMENT SIGNS, ETC., DAMAGED DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED, REPLACED, OR PROTECTED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES TO EXISTING IMPROVEMENTS, EXCAVATION, AND/OR REMOVAL OF ANY AND ALL EXISTING IMPROVEMENTS SHALL BE KEPT TO A MINIMUM AND RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION.
 - ALL UNDERGROUND UTILITIES OR STRUCTURES IN PROPOSED PAVEMENT, EMBANKMENT, OR BUILDING AREAS REQUIRING REMOVAL SHALL BE REMOVED AND BACKFILLED COMPLETELY WITH APPROVED ENGINEERED GRANULAR MATERIAL SUITABLE TO THE A/E.
 - CONTRACTOR RESPONSIBLE FOR DEVELOPMENT AND APPROVAL OF MAINTENANCE OF TRAFFIC PLANS PER INDIANA DEPARTMENT OF TRANSPORTATION AND MUTCD STANDARDS.

EXISTING CONDITIONS LEGEND

---	SURVEYED BOUNDARY
---	LOT/PARCEL LINE
---	RIGHT OF WAY LINE
---	PROPOSED LOT LINE
---	SETBACK LINE
---	EXISTING EASEMENT LINE
---	PROPOSED EASEMENT LINE
---	SECTION LINES

●	SET R.R. SPIKE/NAIL IN ASPHALT	⊠	TELEPHONE PEDESTAL
●	IRON PIN W/CAP IN SOIL	⊠	TRAFFIC SIGNAL PULL BOX
●	CUT CROSS IN CONCRETE	○	SANITARY MANHOLE
■	SET CONCRETE MONUMENT	○	DECIDUOUS TREE
○	FOUND BRASS PLUG	○	CONIFEROUS TREE
○	FOUND IRON PIPE	○	BUSH
○	FOUND REBAR	○	SIGN
○	FOUND CHISELED CROSS	○	(28SD) UTILITY STRUCTURE ID
○	FOUND NAIL	⊠	PARKING COUNT
○	FOUND RIGHT-OF-WAY MARKER	⊠	BENCHMARK
○	INLET/MANHOLE/CATCH BASIN	⊠	BOLLARD
○	INLET/MANHOLE/CATCH BASIN	⊠	POST INDICATOR VALVE
○	FLARED END SECTION	⊠	SIAMSESE CONNECTION
○	FIRE HYD.	⊠	WATER SERVICE
○	WATER VALVE	⊠	ELECTRIC PAINT MARK
○	WATER MANHOLE	⊠	GAS PAINT MARK/FLAG
○	WELL	⊠	CABLE PAINT MARK/FLAG
○	GAS METER	⊠	TELEPHONE PAINT MARK/FLAG
○	SPRINKLER CONTROL VALVE	⊠	WATER PAINT MARK/FLAG
○	ELEC. TRANSFORMER	⊠	MAILBOX
○	ELECTRIC MANHOLE	⊠	SIGNAL POLE
○	TELEPHONE MANHOLE	⊠	ELECTRIC METER
○	CLEANOUT	⊠	FLAGPOLE
○	LIFT STATION		
○	SOIL BORING		
○	GROUND LIGHT		
○	UTILITY POLE		
○	LAMP POLE		
○	LIGHT POLE		
○	GUY WIRE		
---	GUARDRAIL		
---	WOOD FENCE		
---	IRON FENCE		
---	CHAIN LINK FENCE		
---	UNDERGROUND ELECTRIC		
---	OE --- OVERHEAD ELECTRIC		
---	OT --- OVERHEAD TELEPHONE		
---	UT --- UNDERGROUND TELEPHONE		
---	OC --- OVERHEAD CABLE		
---	G --- UNDERGROUND GAS		
---	WTR --- WATER LINE		
---	SAN --- SANITARY LINE		
---	SD --- STORM LINE		

DEMOLITION LEGEND

⊠	REMOVE EXISTING BUILDING, FOUNDATIONS, STONE BASES, STOOPS, WALLS, CHIMNEYS, AND PORCHES.
⊠	FULL DEPTH GRAVEL DRIVE REMOVAL.
⊠	FULL DEPTH SAWCUT AND REMOVE ASPHALT PAVEMENT
⊠	REMOVE CONCRETE WALKS/PAVEMENT
⊠	REMOVE TREES/SHRUBS
⊠	REMOVE EXISTING FENCE
⊠	REMOVE EXISTING GAS METER. COORDINATE WITH VECTREN.
⊠	REMOVE EXISTING SANITARY CLEANOUTS. COORDINATE WITH CITY OF FRANKLIN PUBLIC WORKS.
⊠	REMOVE EXISTING STORM SEWER/STRUCTURE
⊠	REMOVE EXISTING POWER POLE AND LINE. COORDINATE WITH DUKE ENERGY.
⊠	REMOVE EXISTING MAILBOX.

BENCHMARK

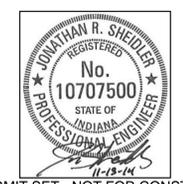
THE BASIS OF ELEVATIONS HEREON IS NAVD 88.

BENCHMARK 1: MAG NAIL SET - SEE DRAWING FOR LOCATION. ELEVATION = 749.15'

BENCHMARK 2: RAILROAD SPIKE SET IN THE SOUTH FACE OF POWER POLE #141-339-A - SEE DRAWING FOR LOCATION. ELEVATION = 749.52'

BENCHMARK 3: RAILROAD SPIKE SET IN THE NORTHWEST FACE OF POWER POLE #46-339-A - SEE DRAWING FOR LOCATION. ELEVATION = 752.63'

BENCHMARK 4: RAILROAD SPIKE SET IN THE NORTH FACE OF POWER POLE #477-339-B - SEE DRAWING FOR LOCATION. ELEVATION = 752.14'



PERMIT SET - NOT FOR CONSTRUCTION

meijer

**STORE FRK
CONSTRUCTION PLANS**
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

■	REVISION NO.	■	REVISION	■	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

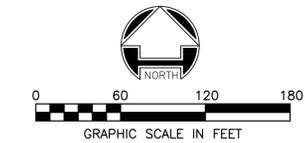
EXISTING CONDITIONS/DEMOLITION PLAN

■	DRAWN BY	■	ISSUE	■	ISSUE DATE	■	SHEET NO.
■	SMB	■	1	■	11/13/14	■	C100
■	CHECKED BY	■	MEJER PROJECT NO.	■	WOOLPERT PROJECT NO.		
■	BJH	■	74485	■	74485		

NOTE: CONTRACTOR TO COORDINATE DEMOLITION WITH ENVIRONMENTAL REQUIREMENTS PER PHASE 2 ESA PROVIDED BY MEIJER.



A1 EXISTING CONDITION/DEMOLITION PLAN
SCALE: 1" = 60'



- GENERAL NOTES**
- NO DIMENSION MAY BE SCALED. REFER UNCLER ITEMS TO THE ENGINEER FOR INTERPRETATION.
 - DIMENSIONS AND/OR COORDINATES ARE TO BACK OF CURB, CENTERLINE OF BUILDING COLUMN LINE (INSIDE FACE OF PRECAST), EDGE OF PAVEMENT OR CENTER OF STRUCTURE OR SIGN. VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - BUILDING SLABS, UNDERBED THICKNESS AND LOCATIONS ARE SHOWN FOR REFERENCE. VERIFY WITH STRUCTURAL DRAWINGS.
 - REFER TO SHEET C500, C501 FOR STRIPING/SIGNAGE, AND PARKING COUNT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND PERFORM REQUIRED COMPACTION OPERATIONS.
 - PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
 - NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED IN THE RIGHT-OF-WAY.
 - WORK SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING AGENCIES HAVING JURISDICTION. GRADING, PAVING AND MATERIALS SHALL COMPLY WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
 - EXTERIOR CONCRETE SLABS ADJACENT TO BUILDING SHALL BE PLACED ON 6" STRUCTURAL CUSHION, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
 - AGGREGATE TO EXTEND 12" BEYOND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE DETAIL D1 AND D3 ON SHEET C701.
 - ALL RADI SHALL BE 3' UNLESS OTHERWISE NOTED.
 - CONTRACTOR RESPONSIBLE FOR DEVELOPMENT AND APPROVAL OF MAINTENANCE OF TRAFFIC PLANS FOR INDIANA DEPARTMENT OF TRANSPORTATION AND MUTCD STANDARDS.

PAVEMENT LEGEND

	CONCRETE
	HEAVY DUTY ASPHALT SEE D1 ON C701
	LIGHT DUTY ASPHALT SEE D1 ON C701
	RIGHT-OF-WAY ASPHALT PER INDOT STANDARDS



PERMIT SET - NOT FOR CONSTRUCTION

meijer

STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

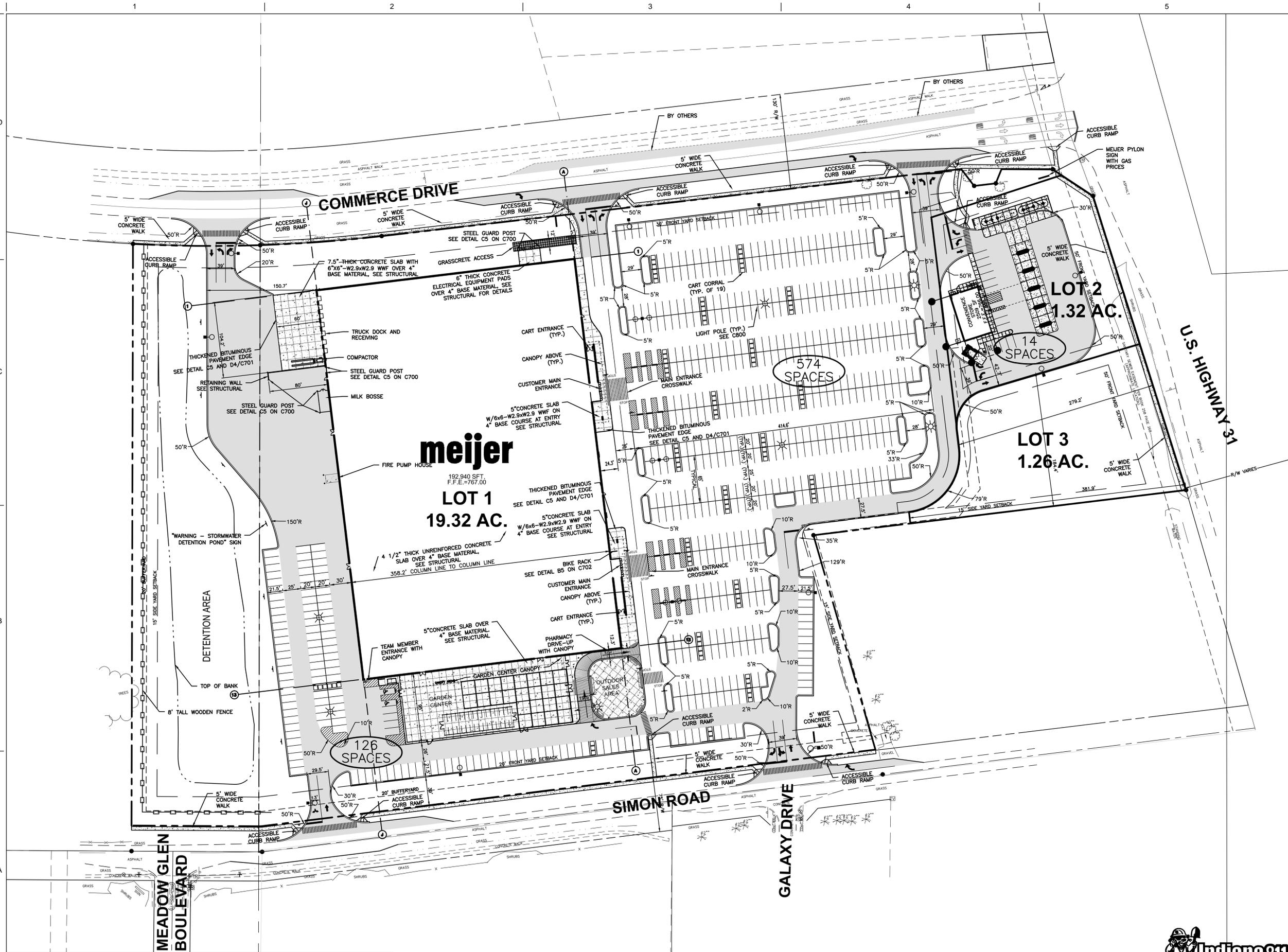
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Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

SITE LAYOUT / PAVEMENT PLAN

DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
SMB	1	11/13/14	C200
CHECKED BY	MEIJER PROJECT NO.	WOOLPERT PROJECT NO.	
BJH		74485	

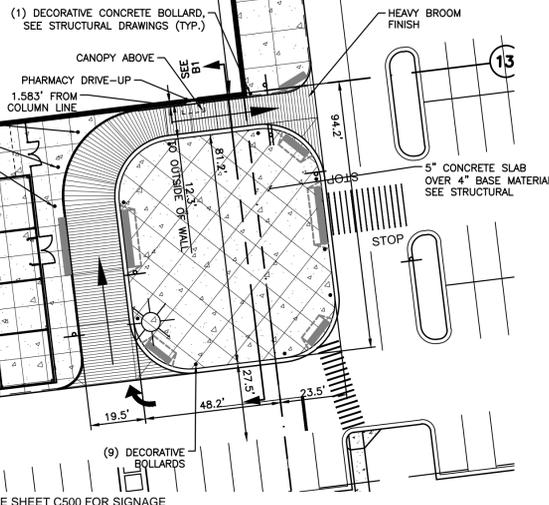
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A1 SITE LAYOUT / PAVEMENT PLAN
SCALE: 1" = 60'

PAVEMENT LEGEND

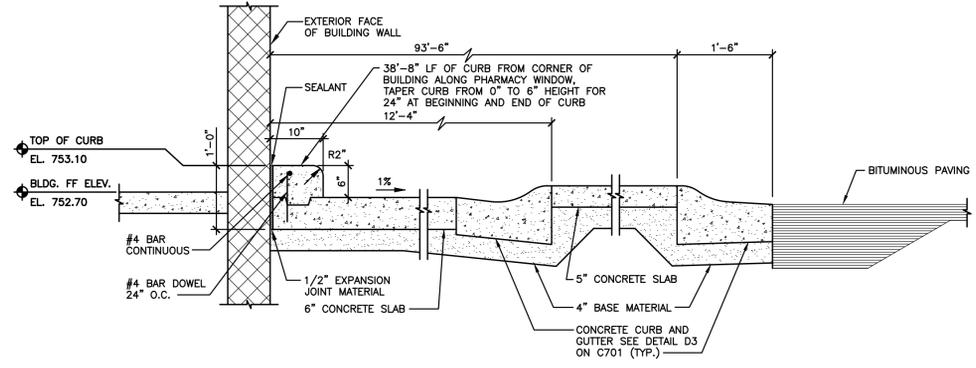
-  CONCRETE SLAB
SEE STRUCTURAL
-  HEAVY BROOM FINISH
SEE STRUCTURAL



C1 PHARMACY DRIVE UP SECTION

SCALE: 1" = 30'

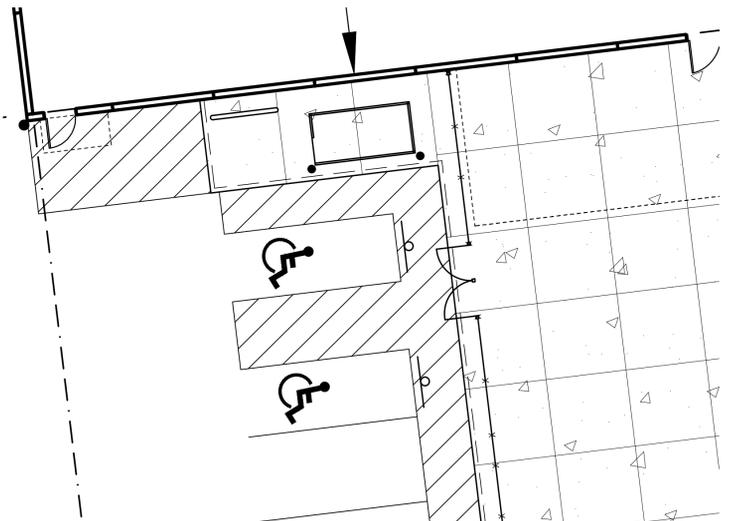
A1/C200



B1 PHARMACY DRIVE-UP SECTION

SCALE: 3/4" = 1'-0"

C1/C200



A1 SMOKING SHELTER

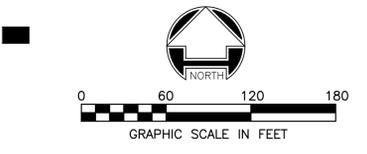
SCALE: 1" = 10'

A1/C200

CONVENIENCE STORE KEY NOTES

- 1 TRASH DUMPSTER ENCLOSURE AND PAD (REFER TO ARCH GAS STATION DRAWING FOR DETAILS).
- 2 PUMP DISPENSER. CONSTRUCTION TO BE PERFORMED BY FUEL SYSTEM CONTRACTOR. LOCATION ON C200 FOR REFERENCE ONLY.
- 3 FUEL TANKS AND CONCRETE PADS SHOWN AS REFERENCE INFORMATION ONLY. TANKS AND FUELING SYSTEM PROVIDED BY FUEL SYSTEM CONTRACTOR.
- 4 CONCRETE PAD FOR AIR COMPRESSOR/VACUUM AND TRASH RECEPTACLE, SEE ARCHITECTURAL GAS STATION DRAWINGS FOR DETAILS.
- 5 PROPANE EXCHANGE BIN AND BOLLARDS REFER TO GAS STATION ARCHITECTURAL DRAWINGS.
- 6 4" CONCRETE SIDEWALK ON 4" BASE MATERIAL REFER TO GAS STATION STRUCTURAL DRAWINGS FOR SIDEWALK DETAILS.
- 7 8" CONCRETE ON 4" AGGREGATE OR PEA STONE BASE.
- 8 6" CONCRETE ON 4" AGGREGATE OR PEA STONE BASE.
- 9 CANOPY INSTALLED BY FUEL SYSTEM CONTRACTOR. (REFER TO FUEL ISLAND CANOPY DRAWINGS).
- 10 ICE STORAGE CHEST.
- 11 SEASONAL OUTDOOR SALES AREA.
- 12 DIESEL/GASOLINE DISPENSER CLOSEST TO STORAGE TANKS.
- 13 UST VENT RISER, BY FUEL SYSTEM CONTRACTOR.
- 14 DELIVERY RAMP STORAGE.
- 15 TRANSFORMER PAD.
- 16 7" CONCRETE ON 4" AGGREGATE OR PEA STONE BASE.
- 17 THICKENED BITUMINOUS PAVEMENT EDGE. SEE DETAIL C5 ON C701 (TYP. ALONG ALL CONCRETE).
- 18 ACCESSIBLE CURB RAMP. SEE DETAIL A2/C702.
- 19 ACCESSIBLE STANDARD PARKING SPACES. SEE DETAILS ON C701.
- 20 15 LF OF DETECTABLE WARNING SURFACE.
- 21 (5) BOLLARDS ALONG FRONT OF BUILDING. SEE ARCHITECTURAL.
- 22 2' CHAMFER

*SIDEWALK DIMENSIONS TO OUTSIDE OF WALL

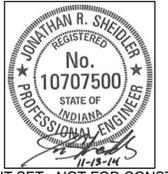


GENERAL NOTES

1. NO DIMENSION MAY BE SCALED. REFER UNCLER ITEMS TO THE ENGINEER FOR INTERPRETATION.
2. DIMENSIONS AND/OR COORDINATES ARE TO BACK OF CURB, CENTERLINE OF BUILDING COLUMN LINE (INSIDE FACE OF PRECAST), EDGE OF PAVEMENT OR CENTER OF STRUCTURE OR SIGN. VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. BUILDING SLABS, UNDERBET THICKNESS AND LOCATIONS ARE SHOWN FOR REFERENCE. VERIFY WITH STRUCTURAL DRAWINGS.
4. REFER TO SHEET C500, C501 FOR STRIPING/SIGNAGE, AND PARKING COUNT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND PERFORM REQUIRED COMPACTION OPERATIONS.
6. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
7. NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED IN THE RIGHT-OF-WAY.
8. WORK SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING AGENCIES HAVING JURISDICTION. GRADING, PAVING AND MATERIALS SHALL COMPLY WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
9. EXTERIOR CONCRETE SLABS ADJACENT TO BUILDING SHALL BE PLACED ON 6" STRUCTURAL CUSHION, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
10. AGGREGATE TO EXTEND 12" BEYOND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE DETAIL D1 AND D3 ON SHEET C701.
11. ALL RADI SHALL BE 3' UNLESS OTHERWISE NOTED.
12. CONTRACTOR RESPONSIBLE FOR DEVELOPMENT AND APPROVAL OF MAINTENANCE OF TRAFFIC PLANS FOR INDIANA DEPARTMENT OF TRANSPORTATION AND MUTCD STANDARDS.

PAVEMENT LEGEND

-  CONCRETE
-  HEAVY DUTY ASPHALT
SEE D1 ON C701
-  LIGHT DUTY ASPHALT
SEE D1 ON C701
-  RIGHT-OF-WAY ASPHALT
PER INDOT STANDARDS



PERMIT SET - NOT FOR CONSTRUCTION



STORE FRK CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **W** 7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

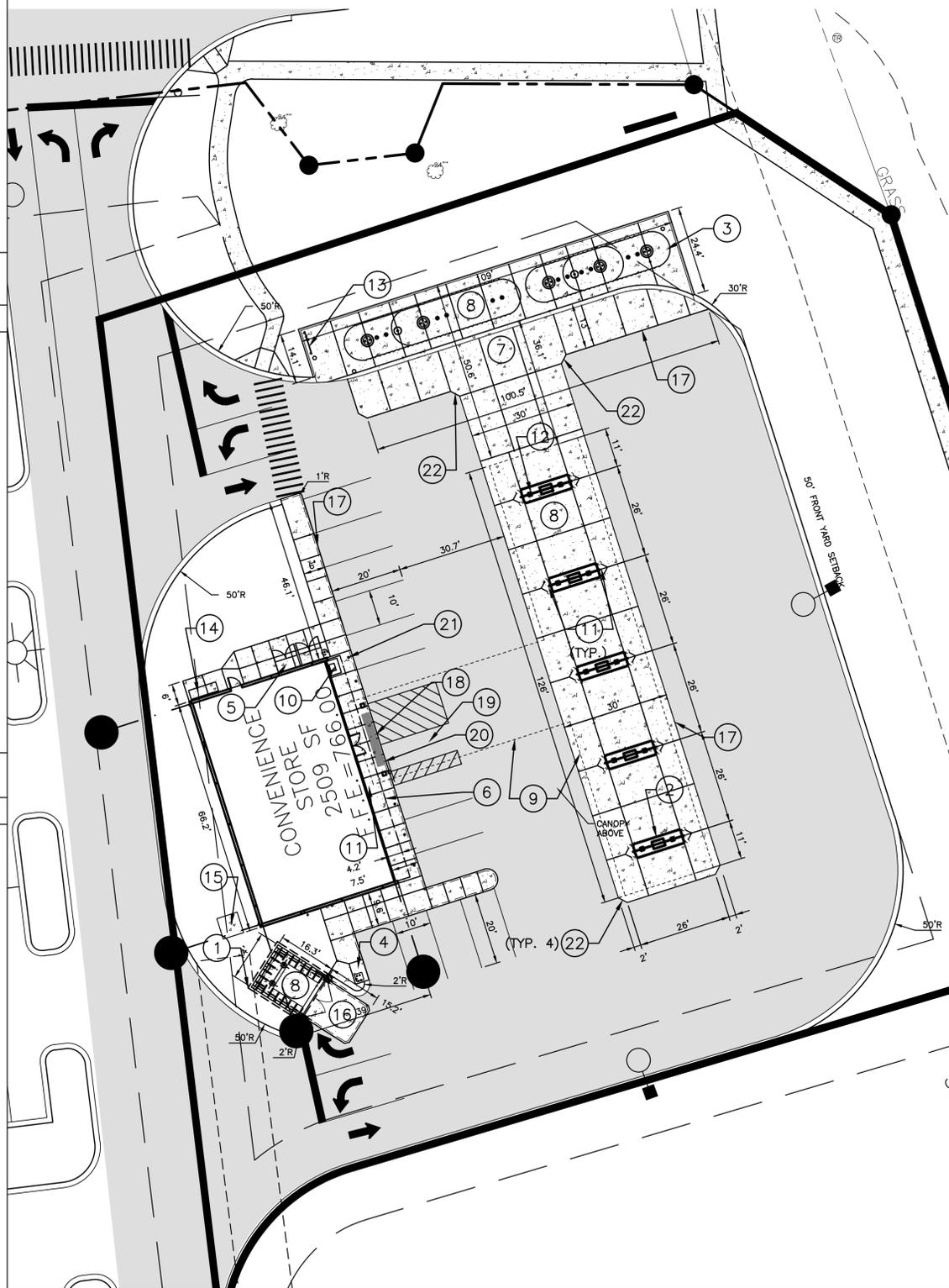


SITE LAYOUT / PAVEMENT PLAN

DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
SMB	1	11/13/14	C201

CHECKED BY: BJK MEIJER PROJECT NO. WOOLPERT PROJECT NO. 74485

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A3 ENLARGED CONVENIENCE STORE AND ENTRANCE

SCALE: 1" = 20'

A1/C200



- GRADING LEGEND**
- EXISTING BOUNDARY
 - PROPOSED BOUNDARY
 - - - - - EXISTING 1' CONTOUR
 - - - - - EXISTING 5' CONTOUR
 - - - - - PROPOSED 1' CONTOUR
 - - - - - PROPOSED 5' CONTOUR
 - PROPOSED FENCE LINE
 - PROPOSED STORM ID
 - PROPOSED CATCH BASIN
 - PROPOSED CURB INLET
 - PROPOSED STORM MANHOLE
 - PROPOSED FLARED END SECTION
 - - - - - LIMITS OF CONSTRUCTION
 - - - - - EMERGENCY FLOOD ROUTE
 - WET
 - WETLANDS
 - 100YR FLOODPLAIN LINE

- GRADING NOTES**
1. ALL SPOT ELEVATIONS ARE TO:
 - TOP OF PAVEMENT (TP)
 - TOP OF SLAB - (TS)
 - TOP OF CURB - (TC)
 - TOP OF WALL - (TW)
 - GUTTER PAN - (GP)
 - UNLESS NOTED OTHERWISE.
 2. CONTOURS SHOWN ARE FOR REFERENCE ONLY.
 3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES TO ENSURE NO STANDING WATER WITHIN PAVEMENT OR GREEN AREAS.
 4. FOR ALL CURB ISLANDS, CENTER OF ISLANDS TO BE A MINIMUM OF 6" HIGHER THAN TOP OF CURB.
 5. SEE "TYPICAL PAVEMENT AT MH AND CB" DETAIL C4 ON C701 FOR SPECIAL GRADING REQUIREMENTS AROUND STRUCTURES.
 6. RESTORE ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO MATCH AT A MINIMUM EXISTING CONDITIONS.
 7. CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREAS SHALL IN NO WAY PROHIBIT OR DISTURB NORMAL PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
 8. FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.1 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATIONS AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISHED DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION.
 9. TO THE BEST KNOWLEDGE OF THE ENGINEER, NO ABANDONED WELLS OR SINKHOLES EXIST ONSITE.



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**STORE FRK
CONSTRUCTION PLANS**
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

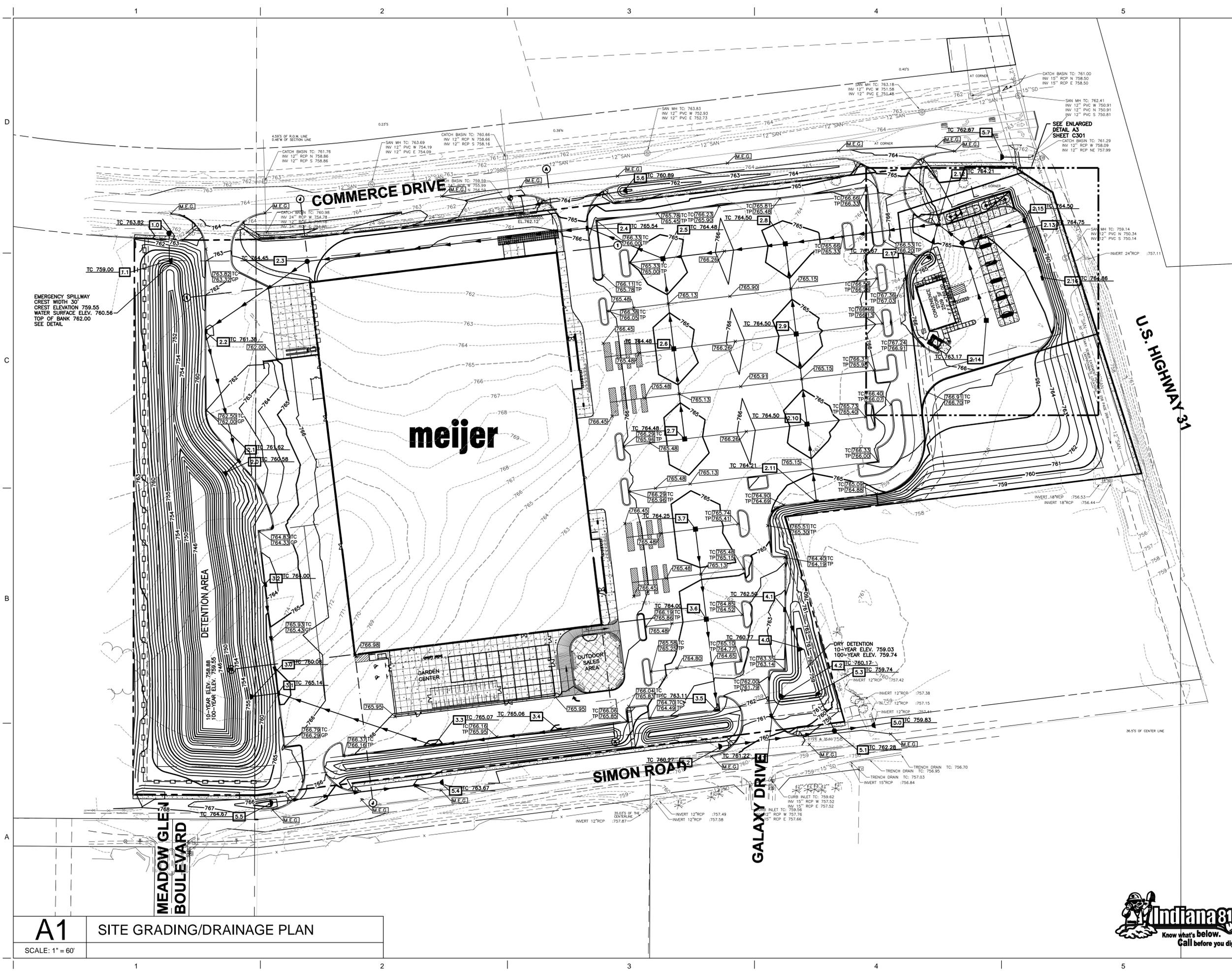
DESIGNED BY: **WOOLPERT**
DESIGN | GEOGRAPHICAL | INFRASTRUCTURE

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Suite 100
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FAX: 317.291.5805

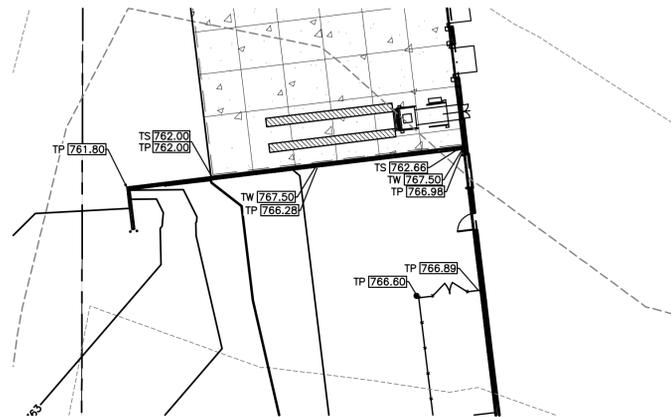
SITE GRADING/DRAINAGE PLAN

DRAWN BY: SMB	ISSUE: 1	ISSUE DATE: 11/13/14	SHEET NO: C300
CHECKED BY: BJH	MEIJER PROJECT NO:	WOOLPERT PROJECT NO: 74485	

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A1 SITE GRADING/DRAINAGE PLAN
SCALE: 1" = 60'



C1 GRADES AT GRADE LEVEL RECEIVING

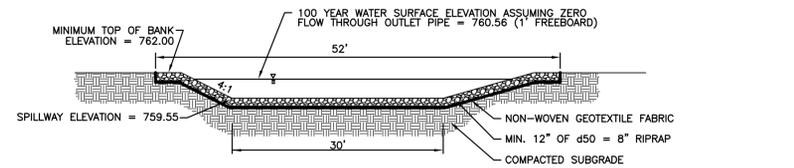
SCALE: 1" = 20'
A1/C300

C3 TYPICAL GRADES AT DOOR

SCALE: 1" = 10'
A1/C300

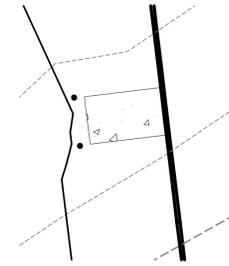
C4 GRADES AT FIRE PUMP HOUSE

SCALE: 1" = 20'
A1/C300



D4 EMERGENCY SPILLWAY SECTION - NORTH POND

NTS C1/C300



GRAPHIC SCALE IN FEET
0 60 120 180

GRADING LEGEND

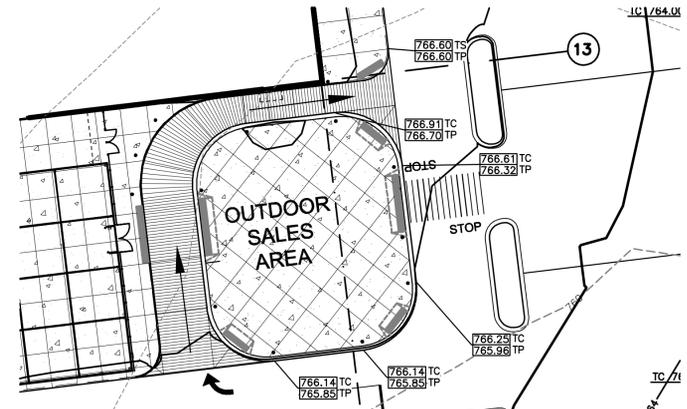
- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- 696 EXISTING 1' CONTOUR
- 695 EXISTING 5' CONTOUR
- 696 PROPOSED 1' CONTOUR
- 695 PROPOSED 5' CONTOUR
- PROPOSED FENCE LINE
- PROPOSED STORM ID
- PROPOSED CATCH BASIN
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED FLARED END SECTION
- LIMITS OF CONSTRUCTION
- EMERGENCY FLOOD ROUTE
- WET WETLANDS
- FLD 100YR FLOODPLAIN LINE

GRADING NOTES

- ALL SPOT ELEVATIONS ARE TO:
 - TOP OF PAVEMENT - (TP)
 - TOP OF SLAB - (TS)
 - TOP OF CURB - (TC)
 - TOP OF WALL - (TW)
 - GUTTER PAN - (GP)
- UNLESS NOTED OTHERWISE.
- CONTOURS SHOWN ARE FOR REFERENCE ONLY.
- PROVIDE POSITIVE DRAINAGE AT ALL TIMES TO ENSURE NO STANDING WATER WITHIN PAVEMENT OR GREEN AREAS.
- FOR ALL CURB ISLANDS, CENTER OF ISLANDS TO BE A MINIMUM OF 6" HIGHER THAN TOP OF CURB.
- SEE "TYPICAL PAVEMENT AT MH AND CB" DETAIL C4 ON C701 FOR SPECIAL GRADING REQUIREMENTS AROUND STRUCTURES.
- RESTORE ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO MATCH AT A MINIMUM EXISTING CONDITIONS.
- CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREAS SHALL IN NO WAY PROHIBIT OR DISTURB NORMAL PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
- FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.1 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATIONS AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISHED DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION.
- TO THE BEST KNOWLEDGE OF THE ENGINEER, NO ABANDONED WELLS OR SINKHOLES EXIST ONSITE.

B1 GRADES AT ELECTRIC ENCLOSURE

SCALE: 1" = 20'
A1/C300

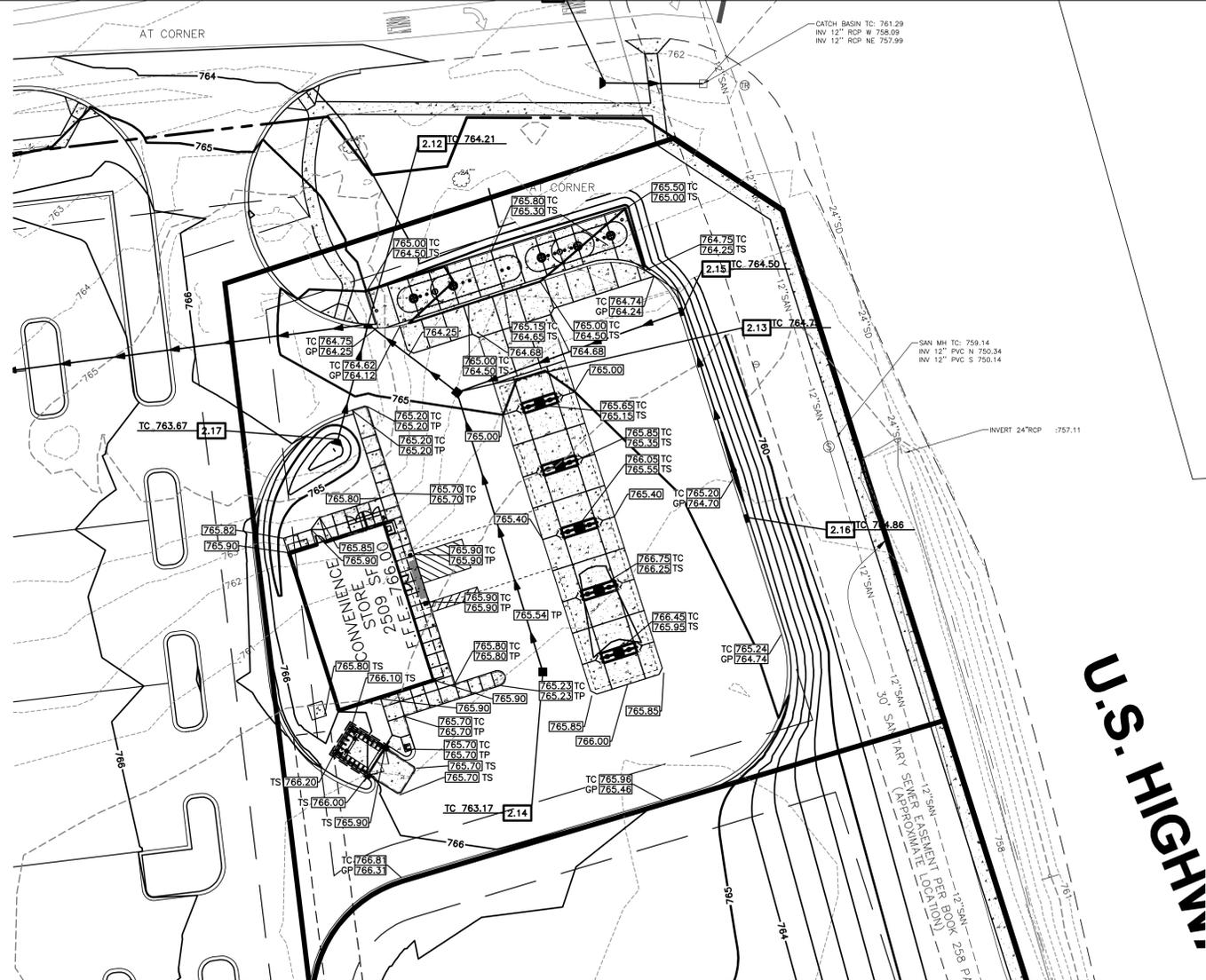


A1 PHARMACY DRIVE-UP GRADING PLAN

SCALE: 1" = 30'
A1/C300

A3 ENLARGED CONVENIENCE STORE AND ENTRANCE

SCALE: 1" = 30'
A1/C200



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STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

DESIGNED BY: **WOOLPERT**
DESIGN | GEOGRAPHICAL | INFRASTRUCTURE

7635 Interactive Way
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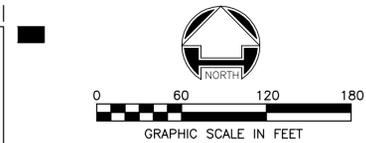
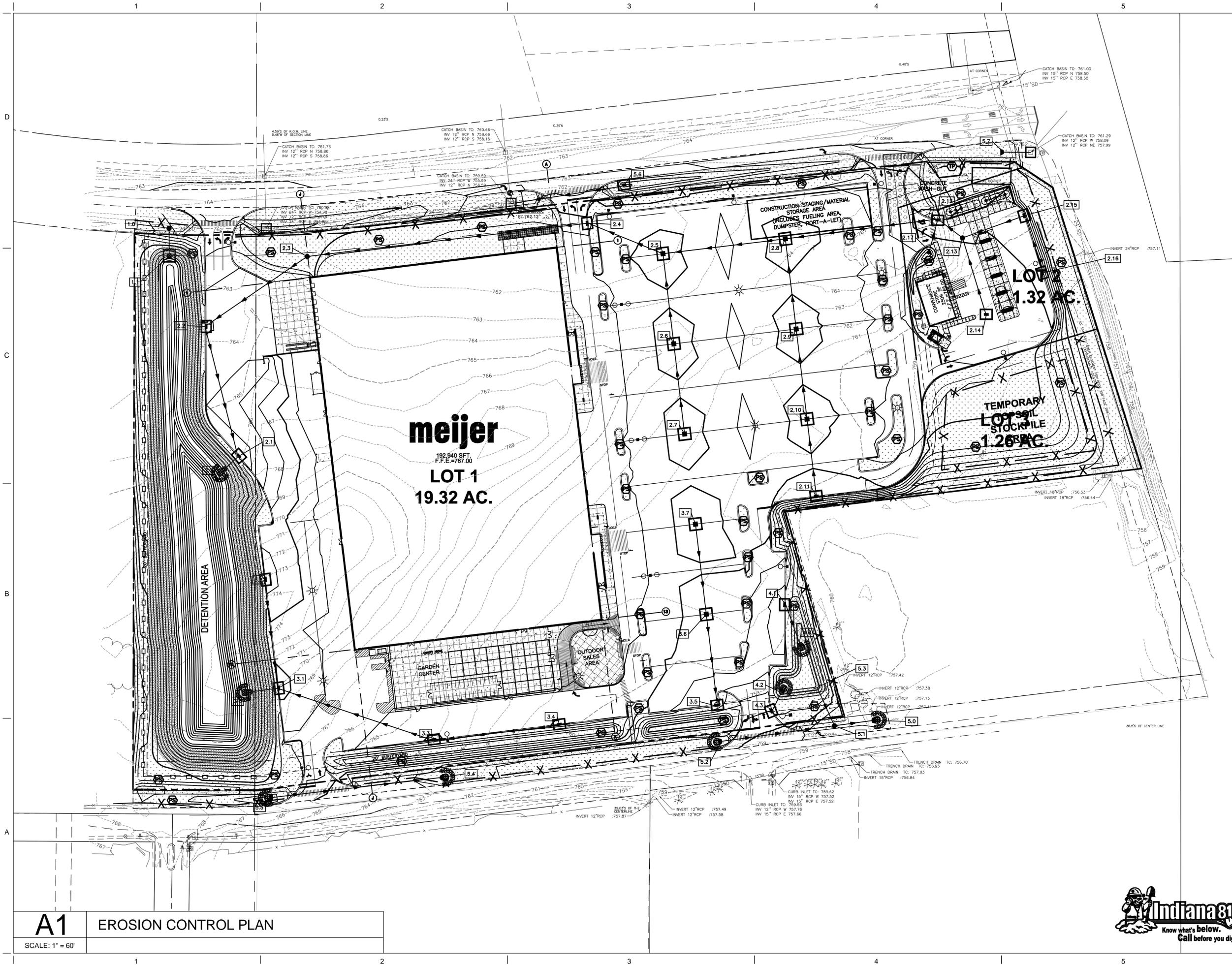
SITE GRADING/DRAINAGE PLAN

DRAWN BY: SMB
ISSUE: 1
ISSUE DATE: 11/13/14
SHEET NO: C301

CHECKED BY: BJH
MEIJER PROJECT NO: 74485
WOOLPERT PROJECT NO: 74485

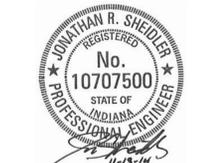
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U.S. HIGHWAY



- LEGEND**
- CONSTRUCTION LIMITS
 - SILT FENCE
 - INLET PROTECTION
 - TREE PROTECTION
 - PROPOSED STORM STRUCTURE
 - EROSION CONTROL BLANKET
 - TEMPORARY CONSTRUCTION ENTRANCE
 - PERMANENT SEEDING
 - TEMPORARY ROCK DONUT
 - ROCK CHUTE

- GENERAL EROSION CONTROL NOTES**
1. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORMWATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIALS, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED.
 2. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
 3. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
 4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).
 5. T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
 6. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORM WATER QUALITY MANUAL" AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
 7. MARION COUNTY HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FILED AS CONDITIONS WARRANT.
 8. SEE SHEET C304 & C305 FOR EROSION CONTROL DETAILS.
 9. EROSION CONTROL BLANKET TO BE PLACED ON ALL SLOPES STEEPER THAN 4H : 1V.



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**STORE FRK
CONSTRUCTION PLANS**
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

DESIGNED BY: **WOOLPERT**
7635 Interactive Way
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STORMWATER POLLUTION PREVENTION PLAN

DRAWN BY: SMB	ISSUE: 1	ISSUE DATE: 11/13/14	SHEET NO.: C302
CHECKED BY: JRN	MEIJER PROJECT NO.: 74485	WOOLPERT PROJECT NO.: 74485	



A1 EROSION CONTROL PLAN
SCALE: 1" = 60'

EROSION CONTROL NOTES

- A1 PLAN INDEX ITEMS RELATED TO THE SWPPP ARE SHOWN AS NOTES ON THIS SHEET.
- A2 NO PLAT IS INCLUDED WITH THIS SUBMITTAL.
- A3 THIS PROJECT INVOLVES THE CONSTRUCTION OF AN APPROXIMATELY 192,940 SF MEIJER STORE AND A 2,509 SF CONVENIENCE STORE WITH ASSOCIATED ACCESS DRIVES AND PARKING.
- A4 THE VICINITY MAP IS LOCATED ON THE COVER SHEET.
- A5 LEGAL DESCRIPTION IS INCLUDED ON THE COVER SHEET.
LATITUDE 39°30'21" N, LONGITUDE 86°04'22" W.
- A6 ALL IMPROVEMENTS AND BOUNDARY IS SHOWN ON THE SITE PLAN.
- A7 HYDROLOGIC UNIT CODE: 05120204090030.
- A8 THERE ARE NO STATE OR FEDERAL WATER QUALITY PERMITS REQUIRED FOR THIS SITE.
- A9 PROPOSED DETENTION POND OUTFLOWS TO COMMERCE DRIVE STORM SEWER SYSTEM.
- A10 PER THE NATIONAL WETLAND INVENTORY, THERE ARE NO POTENTIAL WETLANDS.
- A11 THE ULTIMATE RECEIVING WATER IS THE YOUNGS CREEK – BREWERS/CANARY DITCHES.
- A12 THERE ARE NO DISCHARGES TO GROUNDWATER KNOWN ON THIS PROPERTY OR DIRECTLY DOWNSTREAM.
- A13 NO FLOODPLAIN, FLOODWAYS, OR FLOODWAY FRINGES ARE ON THE PROPERTY.

	NORTH	EAST	SOUTH	SOUTHWEST	NORTHEAST
A14 PRE-CONSTRUCTION PEAK DISCHARGE: (10-yr)	5.39 CFS	4.36 CFS	3.88 CFS	0.23 CFS	0.19 CFS
(100-yr)	13.73 CFS	10.68 CFS	9.99 CFS	0.61 CFS	0.50 CFS
POST-CONSTRUCTION PEAK DISCHARGE: (10-yr)	1.57 CFS	2.94 CFS	0.86 CFS	0.00 CFS	0.00 CFS
(100-yr)	5.21 CFS	5.29 CFS	1.39 CFS	0.00 CFS	0.00 CFS

- A15 ADJACENT LAND USES:
NORTH: COMMERCIAL
SOUTH: RESIDENTIAL
EAST: COMMERCIAL
WEST: AGRICULTURAL
- A16 CONSTRUCTION LIMITS ARE SHOWN IN EROSION CONTROL PLAN SHEET C302.
- A17 THE EXISTING VEGETATION IS GRASSED AREAS AND AGRICULTURE FIELDS.
- A18 SOILS INFORMATION: PLEASE SEE SOILS MAP LOCATED ON THIS SHEET.
- A19 ALL PROPOSED STORMWATER SYSTEMS ARE SHOWN ON THE GRADING AND UTILITY PLANS, C300 AND C301; C400 AND C401, RESPECTIVELY. SEE DETAILS ON DETAIL SHEETS C700-C704.
- A20 THERE ARE NOT PLANNED OFF-SITE CONSTRUCTION ACTIVITIES.
- A21 THE PROPOSED STOCKPILE LOCATION FOR THIS PROJECT IS SHOWN ON SHEET C302.
- A22 EXISTING TOPOGRAPHY IS SHOWN IN THE EXISTING CONDITIONS/DEMOLITION PLAN, C100.
- A23 PROPOSED CONTOURS AND SPOT SHOTS ARE PROVIDED ON THE GRADING PLAN, C300 AND C301.

CONSTRUCTION COMPONENT

- B1 POTENTIAL POLLUTANT SOURCES DURING CONSTRUCTION ACTIVITIES INCLUDE SEDIMENT, CONCRETE WASTE WATER, TRASH, FOSSIL FUELS, OIL, GREASE, PAINT, EXPOSURE OF THESE POLLUTANTS TO STORMWATER RUNOFF SHOULD BE MINIMIZED BY PERFORMING ACTIVITIES SUCH AS EROSION CONTROL, EQUIPMENT STORAGE, REFUELING, MAINTENANCE AND PORT-A-LET PLACEMENT IN DESIGNATED AREAS AS SHOWN ON THE EROSION CONTROL PLAN.
- B2 A CONSTRUCTION SEQUENCE CAN BE FOUND ON THIS PLAN SHEET.
- B3 PLEASE REFER TO EROSION CONTROL PLAN, SHEET C302, FOR THE LOCATION OF THE CONSTRUCTION ENTRANCE.
- B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS ARE TEMPORARY/PERMANENT SEEDING, SILT FENCE AND/OR COCONUT LOGS. SEE SEEDING SCHEDULE ON SHEET C304.
- B5 SEDIMENT CONTROL FOR CONCENTRATED FLOW AREAS INCLUDE EROSION CONTROL BLANKET AND PERMANENT SEEDING. DETAILS CAN BE FOUND ON SHEET C304. THE DETENTION POND MAY BE USED AS TEMPORARY SEDIMENT TRAPS DURING CONSTRUCTION.
- B6 INLET PROTECTION IS PROPOSED FOR ALL EXISTING AND PROPOSED INLETS IN AFFECTED AREA.
- B7 RUNOFF CONTROL MEASURES FOR SWALES INCLUDE PERMANENT SEEDING WITH EROSION CONTROL BLANKET, FOR END SECTIONS, TEMPORARY ROCK DONUTS HAVE BEEN SPECIFIED, FOR MORE PERMANENT EROSION CONTROL ON END SECTIONS, ROCK CHUTES (RIPRAP) ARE PROPOSED. DETAILS CAN BE FOUND ON SHEET C304.
- B8 TEMPORARY ROCK DONUTS HAVE BEEN SPECIFIED AT OUTLET POINTS IN ORDER TO CONTROL SEDIMENT. ROCK CHUTES ARE PROPOSED FOR MORE PERMANENT SEDIMENT CONTROL. DETAILS CAN BE FOUND ON SHEET C304.
- B9 ROCK CHUTES ARE SPECIFIED FOR END SECTIONS, DETAIL CAN BE FOUND N SHEET C304.
- B10 SEE THE DETAIL SHEETS FOR THE CONSTRUCTION SPECIFICATIONS OF EACH MEASURE. SEE THE EROSION CONTROL PLAN FOR THE LOCATION OF ALL PROPOSED EROSION CONTROL MEASURES.

- B11 SEE SEEDING SCHEDULE DETAIL, EROSION CONTROL BLANKET STAPLE PATTERN ON SHEETS C304 AND C305.
- B12 SEE EROSION CONTROL INSTALLATION AND SEEDING SCHEDULE DETAILS ON SHEETS C304 AND C305.
- B13 **MATERIAL HANDLING AND SPILL PREVENTION PLAN:**
IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTOR SHALL IMPLEMENT THIS MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL. IF A SPILL SHOULD OCCUR PLEASE CONTACT THE APPROPRIATE AUTHORITIES BELOW:
EMERGENCY RESPONSE 911
FRANKLIN FIRE DEPARTMENT (317) 736-3651
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (888) 233-7745
JOHNSON COUNTY SURVEYOR'S OFFICE (317) 346-4341

- 1. CONSTRUCTION EQUIPMENT
A. FUELING, LUBRICATION, AND FLUIDS: ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE IN ONE LOCATION SO THAT SPILLS ARE LIMITED TO THAT SPECIFIC LOCATION WHICH WILL FACILITATE THE CLEANUP OF SPILLS. IF AN OUTSIDE FUELING TANK IS PLANNED TO BE ON SITE, IT SHALL BE DOUBLE WALLED AND STORED IN THIS DESIGNATED AREA. THIS LOCATION IS AN AREA THAT WILL NOT ALLOW SPILLED FLUIDS TO MIGRATE INTO SUBSURFACE SOILS. IN THE EVENT OF A SPILL THE FLUID SHALL IMMEDIATELY BE CLEANED UP BY REMOVING THE CONTAMINATED SOIL OR STONE WHICH SHALL BE DISPOSED OF IN AN ACCEPTABLE MANNER. SPILLS ON HARD SURFACES SHALL BE SOAKED UP BY AN ACCEPTABLE MATERIAL SUCH AS OIL DRY AND THE ABSORBENT MATERIAL DISPOSED OF IN A PROPER MANNER. THE SPILL SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONTRACTOR'S SUPERINTENDENT.

- B. EQUIPMENT REPAIR, ESPECIALLY WHEN FLUIDS MUST BE REMOVED FROM THE EQUIPMENT OR THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFFSITE AT A FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS. WHEN EQUIPMENT MUST BE REPAIRED ONSITE, IT SHOULD BE MOVED TO THE MAINTENANCE AND FUELING AREA IF POSSIBLE. OTHERWISE, SUITABLE ON SITE CONTAINERS SHOULD BE PLACED UNDER THE EQUIPMENT DURING REPAIR TO CATCH ANY SPILLED FLUIDS AND THESE FLUIDS SHOULD BE DISPOSED OF IN A PROPER MANNER.
- C. ALL REUSABLE FLUID CONTAINERS, SUCH AS GASOLINE CANS, SHALL BE INSPECTED FOR LEAKS EACH TIME THEY ARE USED. IF LEAKS ARE FOUND, THE FLUID SHALL BE REMOVED FROM THE CONTAINER IN A PROPER MANNER AND THE CONTAINER DISPOSED OF IN AN ACCEPTABLE MANNER. EMPTY DISPOSABLE CONTAINERS, SUCH AS GREASE TUBES AND LUBRICATING OIL AND BRAKE FLUID CONTAINERS, AND THEIR PACKAGING SHALL BE DISPOSED OF IN A PROPER MANNER AND SHALL NOT BE LEFT ON THE GROUND OR IN THE OPEN ON THE CONSTRUCTION SITE.

- 2. CONSTRUCTION MATERIALS AND THEIR PACKAGING
A. EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION IN THE PROPER SEQUENCING TO MINIMIZE SOIL EROSION. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED AS DESCRIBED ELSEWHERE IN THESE PLANS. EXCESSIVE DUSTING OF SOIL ON THE SITE SHALL BE MINIMIZED BY REDUCING CONSTRUCTION TRAFFIC ACROSS BARE SOIL DURING DRY AND/OR WINDY WEATHER AND BY APPLYING WATER OR OTHER ACCEPTABLE DUST CONTROL MEASURES TO THE SOIL. UPON COMPLETION OF CONSTRUCTION AND SUITABLE ESTABLISHMENT OF PERMANENT VEGETATION, TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE AND INLET PROTECTION DEVICES SHALL BE REMOVED IN A MANNER TO MINIMIZE ADDITIONAL LAND DISTURBANCE. ANY AREAS DISTURBED BY THESE OPERATIONS SHALL BE PROPERLY REVEGETATED.

- B. LARGE WASTE MATERIALS CREATED BY CUTTING, SAWING, DRILLING, OR OTHER OPERATIONS SHALL BE PROPERLY DISPOSED OF IN SUITABLE ONSITE WASTE CONTAINERS. THE SITE SHALL BE CHECKED AT THE END OF THE DAY, AT A MINIMUM, AND ALL WASTE MATERIALS, INCLUDING THOSE BLOWN ACROSS, OR OFF THE SITE BY WIND, SHALL BE PICKED UP AND DISPOSED OF IN SUITABLE CONTAINERS. WHERE POSSIBLE, OPERATIONS SUCH AS SAWING THAT CREATES SMALL PARTICLES SHOULD BE PERFORMED IN ONE SPOT IN AN AREA PROTECTED FROM WIND, AND WASTE PARTICLES COLLECTED AND DISPOSED OF FREQUENTLY TO MINIMIZE WIND DISPERSAL. PACKAGING USED TO TRANSPORT MATERIALS TO THE SITE FOR CONSTRUCTION OF THE FACILITY SHALL BE DISPOSED OF PROPERLY, WHETHER THE MATERIAL IS TAKEN OUT OF ITS PACKAGE AND INCORPORATED INTO THE PROJECT IMMEDIATELY OR STORED ONSITE FOR FUTURE USE. PACKAGED MATERIALS STORED ONSITE SHALL BE INSPECTED REGULARLY AND ANY LOOSE PACKAGING SHALL BE REPAIRED OR DISPOSED OF PROPERLY.

- C. ALL DEWATERING ACTIVITIES SHALL BE DONE IN ACCORDANCE TO GOOD EROSION CONTROL PRACTICES. THESE PRACTICES SHOULD INCLUDE THE USE OF DIRT BAGS SUCH AS DANDY DIRT BAGS. THE USE OF THESE TYPES OF DEWATERING DEVICES WILL REMOVE LARGE QUANTITIES OF SILT, SEDIMENT, AND DIRT AND PREVENT THESE MATERIALS FROM ENTERING THE STORM SEWER SYSTEM.
- D. IF THE USE OF LIME IS USED TO STABILIZE THE SOIL OF THE SITE THEN ALL CONSTRUCTION EQUIPMENT USED SHALL BE CLEANED OF ALL EXCESS MATERIAL WITH WATER IN THE CONSTRUCTION STAGING AREAS AS SHOWN WITHIN THESE PLANS.

- E. NUTRIENTS AND FERTILIZERS SHALL ONLY BE USED TO ESTABLISH RAPID VEGETATION. WHEN THESE PRODUCTS ARE UTILIZED, THE USER SHOULD PAY STRICT ATTENTION TO THE PRODUCTS RECOMMENDED USAGE.

- 3. CONCRETE WASTE WATER
A. ALL CONCRETE WASTE WATER SHALL BE DISPOSED OF IN THE DESIGNATED CONCRETE WASHOUT AREAS SHOWN ON SHEET C302. CONCRETE WASTE WATER SHALL BE DISCHARGED INTO A 4'-HIGH, 10'-DIAMETER DOUGHNUT-TYPE MULCH BERM CONSTRUCTED OVER A POLYETHYLENE LINER. CONTRACTOR SHALL INSPECT THIS AREA ON A DAILY BASIS AT A MINIMUM. WHEN THIS AREA BECOMES FULL, THE POLLUTANTS SHALL BE EXCAVATED, PLACED IN AN ACCEPTABLE CONTAINER AND DISPOSED OF IN A PROPER MANNER.

- 4. PAINT PRODUCTS
A. ALL EXCESS PAINT AND THEIR RELATED PRODUCTS SHALL BE DISPOSED OF IN THE MANNER BY WHICH THE MANUFACTURER SUGGESTS. UNDER NO CIRCUMSTANCES SHALL PAINT OR THEIR RELATED PRODUCTS BE CLEANED OR DISPOSED OF IN SOIL, SANITARY SEWERS, STORM SEWERS OR DETENTION BASINS. ANY VIOLATIONS OF THIS SHALL BE REPORTED TO THE JOB SUPERINTENDENT.

IN THE EVENT OF ACCIDENTAL CONTAMINATION, ALL EFFORTS SHOULD BE MADE TO REMOVE CONTAMINANTS IN AN APPROPRIATE MANNER. THE FIRE DEPARTMENT SHOULD BE CONTACTED IMMEDIATELY TO DETERMINE IF FURTHER MEASURES ARE NEEDED.

- B14 PROJECT SITE OWNER OR THEIR REPRESENTATIVE, KNOWLEDGEABLE IN EROSION AND SEDIMENT CONTROL, WILL INSPECT THE SITE FOR STORMWATER POLLUTION PREVENTION DEFICIENCIES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS OF EVERY 1/2 INCH RAIN EVENT. SEE EROSION CONTROL SCHEDULE ON SHEET C305 FOR MAINTENANCE DETAILS.

B15 NOT APPLICABLE.

POST CONSTRUCTION COMPONENTS

- C1 EXPECTED POLLUTANTS IN THE POST-DEVELOPED CONDITION ARE: SEDIMENT, OIL, GREASE, ANTIFREEZE, AND GASOLINE MAY OCCUR IN LIMITED AMOUNTS AS A RESULT OF THIS PROJECT. THE ONLY OTHER REASONABLY FORESEEN POLLUTION FROM THIS SITE WILL BE LITTER AND TRASH DUMPED BY OTHERS.
- C2 TO TREAT 80% TSS FROM THE SITE, THE POST CONSTRUCTION BMP IS THE WET DETENTION POND WITH CHANNEL PROTECTION VOLUME. THE POND IS SIZED AND ORIFICES SET PER THE FRANKLIN STORMWATER MANUAL IN ORDER TO ACHIEVE WATER QUALITY, WITH THE TOTAL WATER QUALITY VOLUME EQUAL TO 0.5 INCHES OF STORAGE PER ACRE. A DRY DETENTION BASIN IS ALSO DESIGNED TO REMOVE 80% TSS GIVEN THE PROPOSED FLOW THROUGH RATE PER THE FRANKLIN STORMWATER MANUAL.
- C3 TO TREAT 80% TSS FROM THE SITE, A WET DETENTION POND WITH CHANNEL PROTECTION VOLUME. THE WET POND WILL PROVIDE SEDIMENT REMOVAL AND DILUTION OF POLLUTANTS PRIOR TO DISCHARGING FROM THE PROPERTY.
- C4 SEE GRADING, EROSION CONTROL AND UTILITY PLANS FOR LOCATION AND SPECIFICATIONS OF THE WET POND. SEE WET POND TYPICAL SECTION DETAIL ON SHEET C301.
- C5 MAINTENANCE OF ALL STORMWATER POLLUTION PREVENTION MEASURES WILL BE THE RESPONSIBILITY OF THE PROJECT OWNER. MEIJER STORES, INC., UTILIZING PROCEDURES OUTLINED ON THESE PLANS. THE MAINTENANCE GUIDELINES CONSIST MOSTLY OF GOOD HOUSEKEEPING MEASURES. ANY GRASSED OR VEGETATED AREAS THAT EXPERIENCE EROSION FROM RAINFALL EVENTS SHOULD BE REPAIRED AND REVEGETATED AS SOON AS POSSIBLE. TRASH OR LITTER SHOULD BE PICKED UP AND PROPERLY DISPOSED TO PREVENT IT FROM GETTING INTO THE STORM DRAINAGE SYSTEM AND DOWNSTREAM WATERWAYS. SEE GRADING AND UTILITY PLAN FOR THE LOCATION OF THE WET POND. REMOVAL OF SEDIMENT ACCUMULATION FROM THE FOREBAY SHOULD OCCUR WHEN 50% OF THE STORAGE VOLUME IS LOST. TO REMOVE SEDIMENT ACCUMULATION, DEWATER THE FOREBAY AND REMOVE OF SEDIMENT WITH A BACKHOE.

EROSION OF THE STEEP BANKS OF ANY BERMS OR SWALES SHOULD BE ADDRESSED AS SOON AS IT BECOMES VISIBLE BY FILLING THE ERODED AREA WITH SUITABLE SOIL AND ESTABLISHING VEGETATION IMMEDIATELY, PREFERABLY BY SOODING.

PAVEMENT AREAS SHOULD BE MONITORED FOR POLLUTANTS. ANY LARGE QUANTITIES OF FLUIDS SUCH AS OIL, ANTIFREEZE, BRAKE FLUID, ETC. FOUND ON THE PAVEMENT SHOULD BE REPORTED TO THE OWNER. THE OWNER SHOULD CLEAN THE POLLUTANTS AND PREVENT THE SOURCE FROM ENTERING THE SITE IN THE FUTURE. FINALLY, PAVEMENTS SHOULD ALSO BE MONITORED FOR SEDIMENT COMING FROM VEGETATIVE AREAS. IF POST-CONSTRUCTION EROSION IS OCCURRING, THE SOURCE SHOULD BE RE-STABILIZED AS SOON AS POSSIBLE BY SEEDING, SOODING OR MULCHING.

OWNER CONTACT:
DAVE GILMORE, NEW CONSTRUCTION DESIGN MANAGER
MEIJER CORPORATION
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
PHONE: (616) 453-6711

CONSTRUCTION SEQUENCE

1. SUBMIT NOTICE OF INTENT (NOI) LETTER TO IDEM A MINIMUM OF 48 HOURS PRIOR TO INITIATION OF LAND DISTURBING ACTIVITIES. A PROOF OF PUBLICATION IN A NEWSPAPER OF GENERAL CIRCULATION IN THE PROJECT SITE AREA WILL BE INCLUDED WITH THE NOI LETTER SUBMITTAL.
2. THE CONSTRUCTION PROJECT MANAGER SHALL BE THE PERSON RESPONSIBLE FOR COMPLYING WITH THE ONSITE SWPPP. COORDINATE RESPONSIBILITY FOR COMPLETING THE SITE REVIEWS AFTER EACH 1/2" RAINFALL AND/OR A MINIMUM OF ONE TIME A WEEK.
3. NOTIFY ROB BECK, IDEM RULE 5 INSPECTOR FOR JOHNSON COUNTY AT (317) 234-5028 WITHIN 48 HOURS OF STARTING CONSTRUCTION.
4. POST THE CONTACT INFORMATION AT THE CONSTRUCTION ENTRANCE. INCLUDE A COPY OF THE NOI AND THE CONTACT INFORMATION FOR THE PERSON RESPONSIBLE FOR IMPLEMENTING THE SWPPP. THE SWPPP SHOULD BE ONSITE AND WEEKLY SITE REPORTS NEED TO BE AVAILABLE WITHIN 48 HOURS OF A REQUEST.
5. INSTALL SILT FENCE AND INLET PROTECTION FOR EXISTING INLETS. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS REQUIRED BY DETAIL.
6. LOCATE FUELING AREA, PORT-O-LET, SOLID WASTE BIN, CONCRETE WASH-OUT WITH A POLYETHYLENE LINER AND STAGING AREA.
7. DEMOLISH AND ROUGH GRADE ENTIRE SITE. DISTURBED AREAS ARE TO BE KEPT TO A MINIMUM. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS.
8. FINE GRADE BUILDING PAD AND BEGIN FOUNDATION.
9. CONSTRUCT DETENTION BASIN, INSTALL STORM SEWERS AND INLET/OUTLET PROTECTION.
10. INSTALL UNDERGROUND UTILITIES.
11. STONE PARKING AREAS AND DRIVES.
12. CONTINUE BUILDING CONSTRUCTION, APPLY PERMANENT SEEDING.
13. ADD BINDER COURSE ON PARKING AREAS AND DRIVES.
14. INSTALL LANDSCAPING.
15. COMPLETE BUILDING CONSTRUCTION.
16. ADD SURFACE COURSE OF ASPHALT.
17. SILT FENCE AND INLET PROTECTION SHALL REMAIN IN PLACE UNTIL AREAS ARE STABILIZED. CONTRACTOR TO COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, AS REQUIRED, WITH THE OWNER.
18. ONCE THE CONSTRUCTION ACTIVITY IS COMPLETED, A COMPLETED RULE 5 NOTICE OF TERMINATION (NOT) FORM WILL BE FILED WITH IDEM.

OWNER CONTACT:
DAVID GILMORE, NEW CONSTRUCTION DESIGN MANAGER
MEIJER CORPORATION
2929 WALKER AVE
GRAND RAPIDS, MI 49544
(616) 453-6711

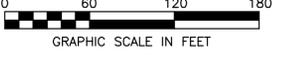
SOILS DATA

- CrA - CROSBY SILT LOAM, FINE LOAMY SUBSOIL, 0-2% SLOPES
- Br - BROOKSTON SILTY CLAY LOAM
- MnC2 - MIAMI SILT LOAM, 6-12% SLOPES, ERODED
- MnB2 - MIAMI SILT LOAM, 2-6% SLOPES, ERODED



SOILS MAP
NOT TO SCALE

ALL AREAS THAT ARE LEFT UNDISTURBED FOR 7 DAYS SHALL RECEIVE SEED AND MULCH.



LEGEND

- CONSTRUCTION LIMITS
- SILT FENCE
- INLET PROTECTION
- TREE PROTECTION
- PROPOSED STORM STRUCTURE
- EROSION CONTROL BLANKET
- TEMPORARY CONSTRUCTION ENTRANCE
- PERMANENT SEEDING
- TEMPORARY ROCK DONUT
- ROCK CHUTE

GENERAL EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORMWATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIALS, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED.
2. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
3. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).
5. T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
6. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORM WATER QUALITY MANUAL" AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
7. MARION COUNTY HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FILED AS CONDITIONS WARRANT.
8. SEE SHEET C304 & C305 FOR EROSION CONTROL DETAILS.
9. EROSION CONTROL BLANKET TO BE PLACED ON ALL SLOPES STEEPER THAN 4H : 1V.



PERMIT SET - NOT FOR CONSTRUCTION

meijer
STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

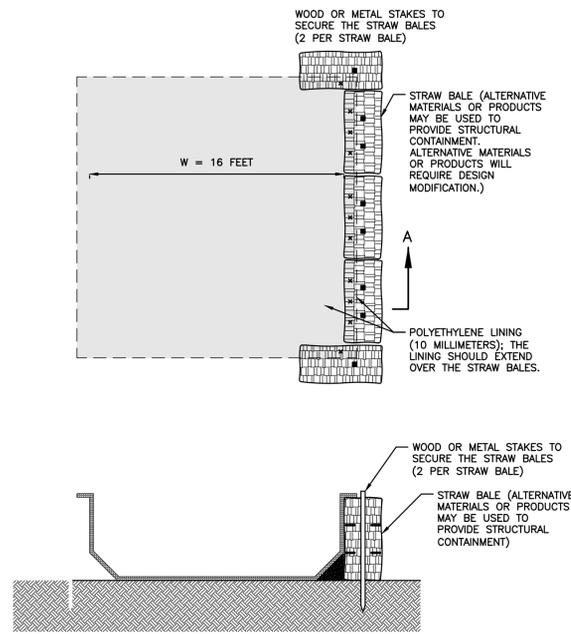
REVISION NO.	REVISION	REV DATE

CONSTRUCTION MANAGED BY:

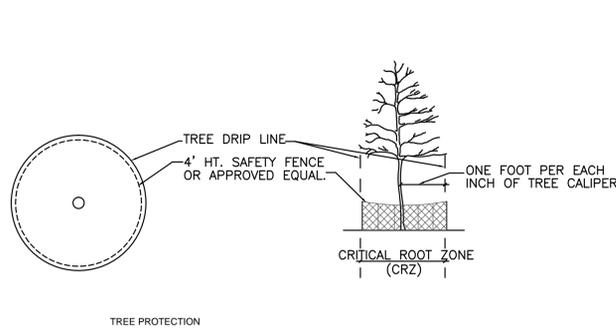
DESIGNED BY: **WOOLPERT**
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
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STORMWATER POLLUTION PREVENTION PLAN

DRAWN BY: SMB	ISSUE: 1	ISSUE DATE: 11/13/14	SHEET NO: C303
CHECKED BY: JRN	MEIJER PROJECT NO:	WOOLPERT PROJECT NO: 74485	

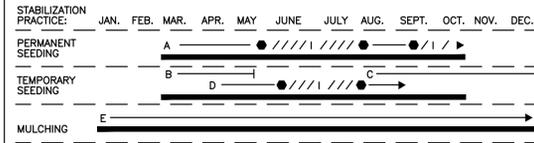


CONCRETE WASHOUT DETAIL
NO SCALE



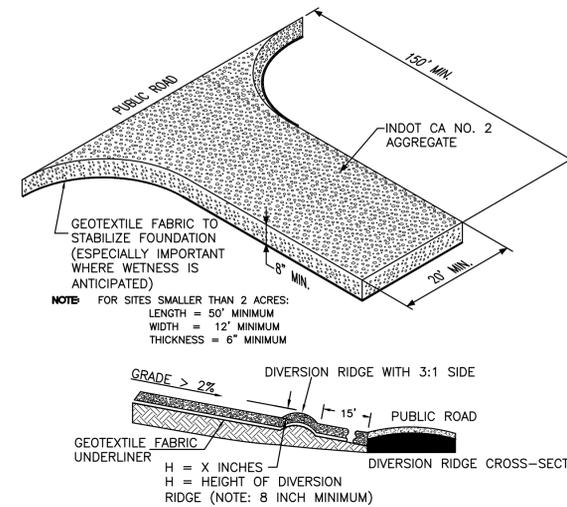
- FENCING SHALL BE PLACED AT THE DRIP LINE OF TREES TO BE PROTECTED DURING CONSTRUCTION. THE DRIP LINE OF A TREE IS DEFINED BY A CIRCLE ON THE GROUND BENEATH A TREE HAVING ITS CENTER POINT AT THE CENTER OF THE TRUNK AND HAVING A RADIUS EQUAL TO ONE (1') FOOT PER CALIPER INCH OF THE TREE MEASURED 4.5 FEET ABOVE THE GROUND. FENCING SHALL BE ORANGE SAFETY FENCE ON METAL POSTS OR 2"x4" STANDARDS WITH 1"x4" RAILS, 4' HT. OR AN APPROVED EQUAL.
- GROUPS OF TREES MAY BE FENCED AS ONE.

TREE PROTECTION DETAIL
NO SCALE



- A = KENTUCKY BLUEGRASS 40%, TURF TYPE TALL FESCUE 40%, ANNUAL RYE GRASS 20% PLUS 2 TONS OF STRAW MULCH/ ACRE
APPLY MIXTURE AT A RATE OF 2 LBS. PER 1000 SQ.FT.
- B = SPRING OATS 3 BUSHEL PER ACRE
- C = WHEAT OR RYE 2 BUSHEL PER ACRE
- D = ANNUAL RYE GRASS (1 LB. PER 1000 SQ. FT.)
- E = STRAW MULCH (90 LBS. PER 1000 SQ.FT.)
- / / ● IRRIGATION NEEDED DURING JUNE, JULY, AND / OR SEPTEMBER.
- ● IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD
- NOTE: ALL SEEDING SHALL HAVE 12-12-12 FERTILIZER APPLIED 400-600 LBS. PER ACRE OR AS SPECIFIED.

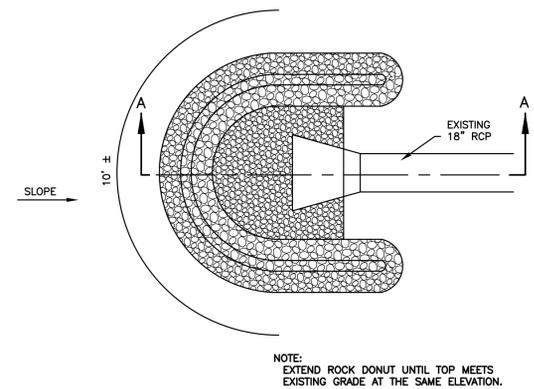
SEEDING SCHEDULE
NO SCALE



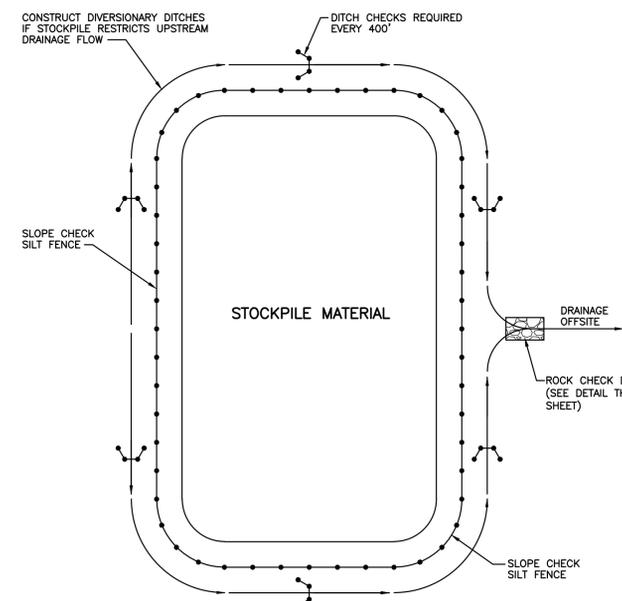
- INSTALLATION:**
- REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
 - GRADE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. IF THE SLOPE OF THE CONSTRUCTION ENTRANCE IS TOWARD A PUBLIC ROAD AND EXCEEDS TWO PERCENT, CONSTRUCT AN EIGHT INCH HIGH DIVERSION RIDGE WITH A RATIO OF 3-TO-1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
 - INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
 - IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
 - PLACE AGGREGATE (INDOT CA NO. 2) TO THE DIMENSIONS AND GRADE SHOWN IN THE CONSTRUCTION PLANS, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
 - TOP-DRESS THE FIRST 50 FEET ADJACENT TO THE PUBLIC ROADWAY WITH TWO TO THREE INCHES OF WASHED AGGREGATE (INDOT CA NO. 53) [OPTIONAL, USED PRIMARILY WHERE THE PURPOSED OF THE PAD IS KEEP SOIL FROM ADHERING TO VEHICLE TIRES].
 - WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE INGRESS/EGRESS PAD TO A SEDIMENT TRAP OR BASIN.

- MAINTENANCE:**
- INSPECT DAILY.
 - RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 - TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.
 - IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
 - FLUSHING SHOULD ONLY BE USED IF THE WATER CAN BE CONVEYED INTO A SEDIMENT TRAP OR BASIN.

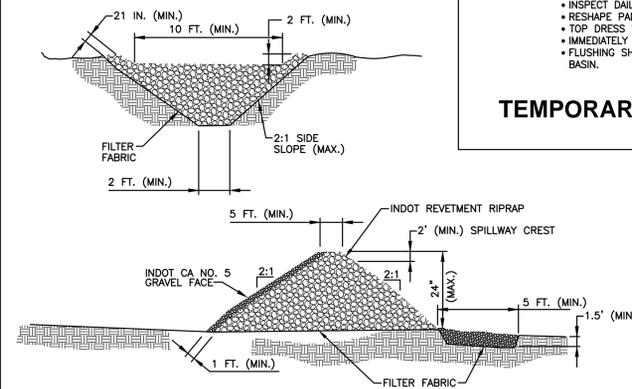
TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NO SCALE



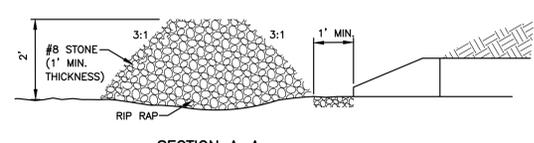
ROCK DONUT DETAIL
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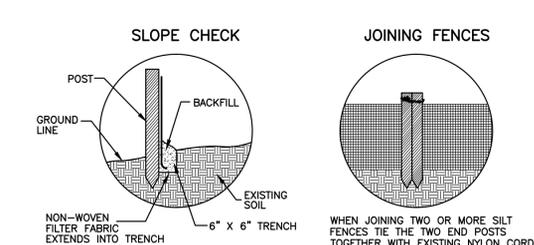
STOCKPILE EROSION CONTROL
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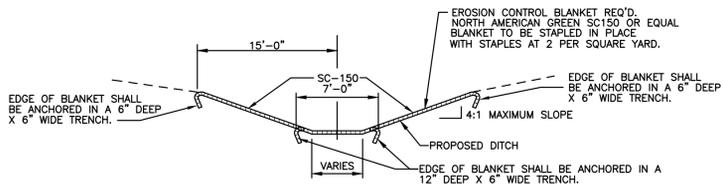
ROCK CHECK DAM
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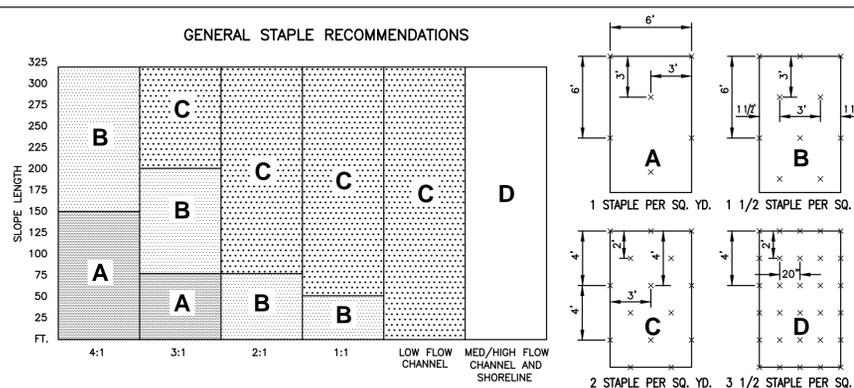
ROCK DONUT DETAIL
NO SCALE



SILT FENCE DETAIL
NO SCALE

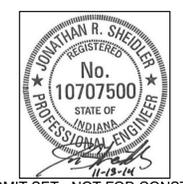


TYPICAL EROSION CONTROL BLANKET
NO SCALE



- NOTE:**
- CHANNEL LINING UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.
 - STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.
 - AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

EROSION CONTROL MAT INSTALLATION GUIDE DETAIL
NO SCALE



PERMIT SET - NOT FOR CONSTRUCTION



STORE FRK CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

DESIGNED BY: **WOOLPERT**
7635 Interactive Way
Suite 100
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317.299.7500
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CONSTRUCTION MANAGED BY:

EROSION CONTROL DETAILS

DRAWN BY: SMB	ISSUE: 1	ISSUE DATE: 11/13/14	SHEET NO.: C304
CHECKED BY: BJH	MEIJER PROJECT NO.:	WOOLPERT PROJECT NO.:	74485

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EROSION CONTROL SCHEDULE		
EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	INSPECT WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE; RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL; TOP DRESS WITH CLEAN STONE AS NEEDED; REMOVE ALL MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS IMMEDIATELY	PRIOR TO CLEARING AND GRADING
SILT FENCE	INSPECT AFTER STORM EVENTS; REPAIR ANY AREAS OF DECOMPOSITION OR DAMAGE TO FENCE MATERIAL; REMOVE SEDIMENT AT DEPTH OF ONE HALF FENCE HEIGHT AT LOWEST POINT OR IF FABRIC BULGES; AVOID UNDERMINING DURING CLEANOUT	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY DIVERSIONS	INSPECT WEEKLY AND AFTER EACH STORM EVENT; REMOVE SEDIMENT FROM CHANNEL AND REINFORCE RIDGE AS NEEDED; REPAIR OUTLET DAMAGE IMMEDIATELY; REMOVE SEDIMENT FROM TRAPS WHEN 50% FULL; WHEN WORK AREA IS STABILIZED, REMOVE RIDGE, FILL CHANNEL, REMOVE TEMPORARY SLOPE DRAINS, AND STABILIZE ALL DISTURBED AREAS	ALONG WITH ROUGH GRADING
TEMPORARY SEDIMENT TRAP	INSPECT AFTER STORM EVENTS; REMOVE SEDIMENT AT ONE HALF DESIGN DEPTH; REPLACE SPILLWAY GRAVEL FACING IF CLOGGED; REPAIR EROSION AND HOLES AS NEEDED; REPLACE DISPLACED RIPRAP	DURING CLEARING AND PRIOR TO GRADING
TEMPORARY SEEDING	INSPECT PERIODICALLY TO VERIFY ADEQUATE ESTABLISHMENT OF VEGETATIVE STANDS; RESEED AND MULCH AS NEEDED; INSPECT AFTER STORM EVENTS AND REPAIR EROSION DAMAGE; TOP DRESS FALL SEEDED WHEAT OR RYE SEEDINGS WITH 50 LBS/AC OF NITROGEN IN FEBRUARY OR MARCH IF NITROGEN DEFICIENCY IS APPARENT; WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	INSPECT PERIODICALLY AND AFTER STORM EVENTS UNTIL VEGETATIVE STAND IS ESTABLISHED; ADD FERTILIZER AFTER GROWING SEASON PER SOIL TEST RECOMMENDATIONS; REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING, PREPARING THE SEED BED, FERTILIZING, AND/OR SEEDING AND MULCHING	AFTER FINISH GRADING OF EACH AREA
EROSION CONTROL BLANKET	INSPECT FOR AREAS OF EROSION BELOW THE BLANKET AFTER EACH STORM EVENT; REPAIR AREAS OF EROSION BY REMOVING AFFECTED PORTION OF BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE BLANKET; INSPECT PERIODICALLY AFTER VEGETATION IS ESTABLISHED	AFTER FINISH GRADING
STRAW BALES	INSPECT THE BALES AFTER EACH STORM EVENT; REMOVE SEDIMENT DEPOSITS TO PROVIDE STORAGE FOR THE NEXT STORM BEING CAREFUL NOT TO DAMAGE OR UNDERCUT THE BALES; REPLACE DAMAGED OR DETERIORATED BALES IMMEDIATELY	AFTER FINISH GRADING
INLET PROTECTION	INSPECT FABRIC BARRIER AFTER STORM EVENTS AND MAKE NEEDED REPAIRS IMMEDIATELY; REMOVE SEDIMENT FROM THE POOL AREA WHILE AVOIDING DAMAGING OR UNDERCUTTING THE FABRIC	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	KEEP SOD MOIST UNTIL FULLY ROOTED; WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF STRAW BALES	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

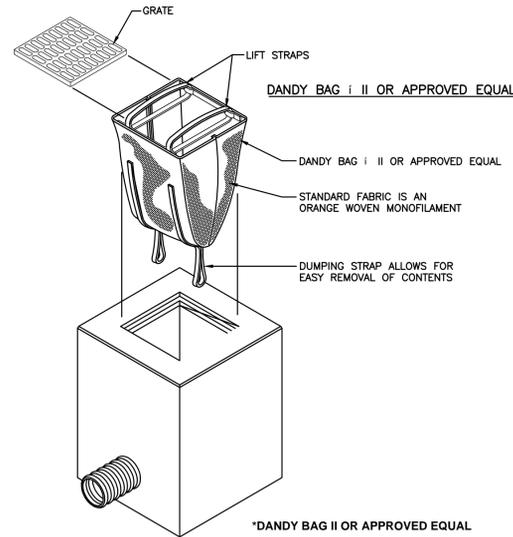
DT719

DANDY BAG I II *

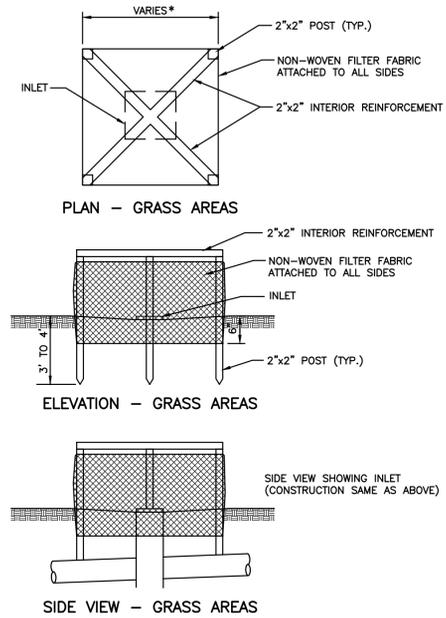
INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG I II SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE DANDY BAG I II. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.

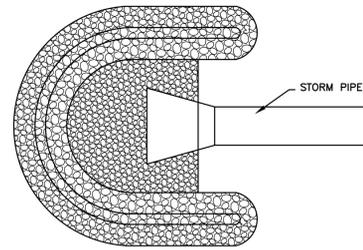


INLET PROTECTION FOR STRUCTURES IN PAVEMENT
NO SCALE

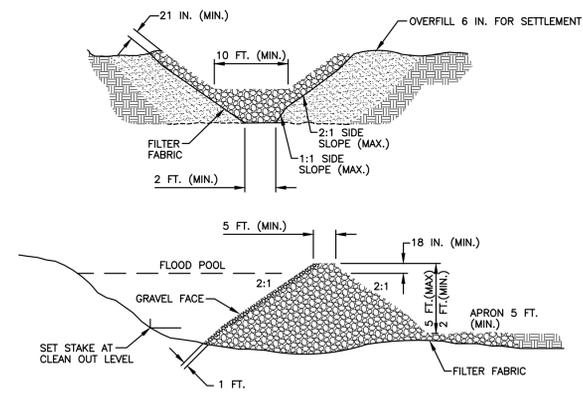


NOTES:
NON-WOVEN FILTER FABRIC ATTACHED TO ALL SIDES OF BOX.
SILT BOXES TO BE LOCATED AT EACH CATCH BASIN.
*DIMENSIONS OF BOX WILL VARY ACCORDING TO THE SIZE OF INLET AND DEPTH OF BASE.

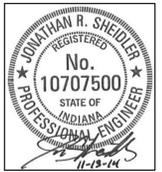
SILT BOX DETAIL FOR GRASS AREAS
NO SCALE



REQUIRED STORAGE OF 1800 CF PER ACRES



SEDIMENT TRAP STONE OUTLET
NO SCALE



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STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT** 7635 Interactive Way Suite 100 Indianapolis, IN 46278 317.299.7500 FAX: 317.291.5805

EROSION CONTROL DETAILS

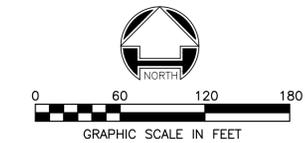
DRAWN BY: SMB ISSUE: 1 ISSUE DATE: 11/13/14 SHEET NO. C305
CHECKED BY: BJH MEIJER PROJECT NO. WOOLPERT PROJECT NO. 74485

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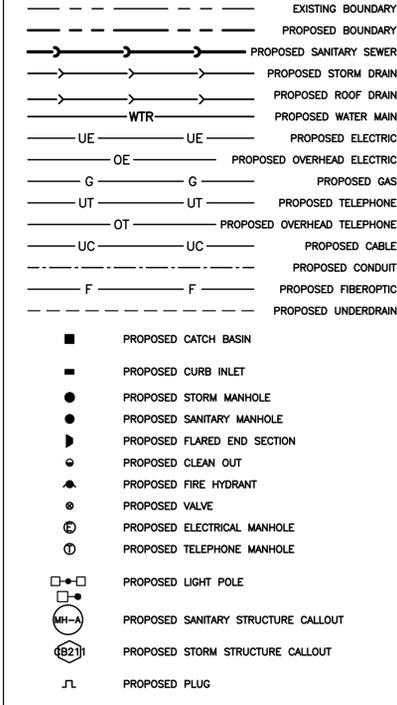
A1

EROSION CONTROL DETAILS

NO SCALE



UTILITY PLAN LEGEND



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STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

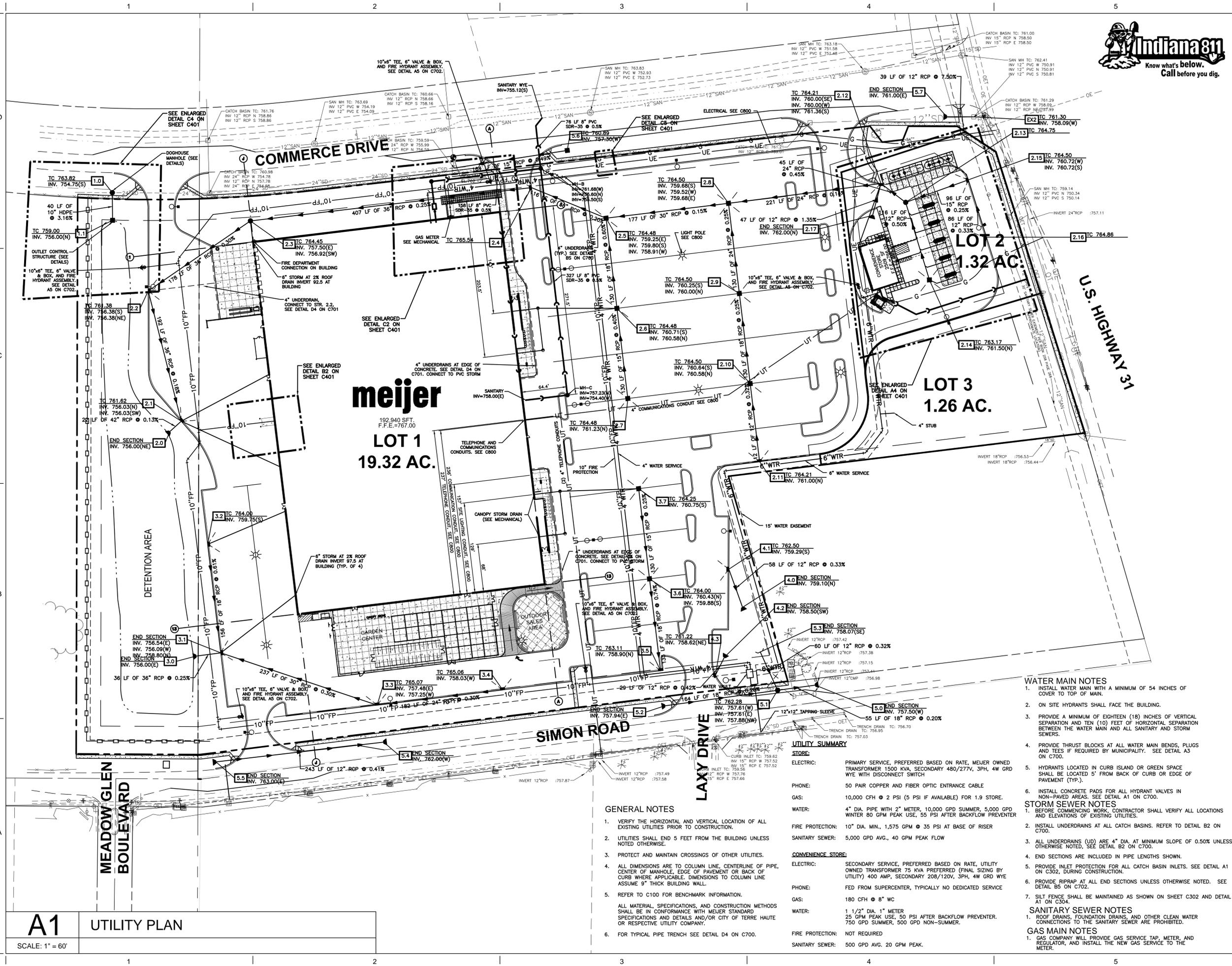
CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
DESIGN | GEOGRAPHICAL | INFRASTRUCTURE

7635 Interactive Way
Suite 100
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UTILITY PLAN

DRAWN BY: SMB
ISSUE: 1
ISSUE DATE: 11/13/14
SHEET NO.: C400
CHECKED BY: BJH
MEIJER PROJECT NO.: 74485
WOOLPERT PROJECT NO.: 74485

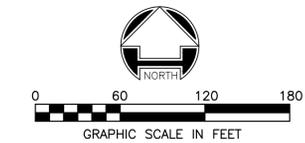


- #### GENERAL NOTES
- VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - UTILITIES SHALL END 5 FEET FROM THE BUILDING UNLESS NOTED OTHERWISE.
 - PROTECT AND MAINTAIN CROSSINGS OF OTHER UTILITIES.
 - ALL DIMENSIONS ARE TO COLUMN LINE, CENTERLINE OF PIPE, CENTER OF MANHOLE, EDGE OF PAVEMENT OR BACK OF CURB WHERE APPLICABLE. DIMENSIONS TO COLUMN LINE ASSUME 9" THICK BUILDING WALL.
 - REFER TO C100 FOR BENCHMARK INFORMATION.
ALL MATERIAL, SPECIFICATIONS, AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH MEIJER STANDARD SPECIFICATIONS AND DETAILS AND/OR CITY OF TERRE HAUTE OR RESPECTIVE UTILITY COMPANY.
 - FOR TYPICAL PIPE TRENCH SEE DETAIL D4 ON C700.

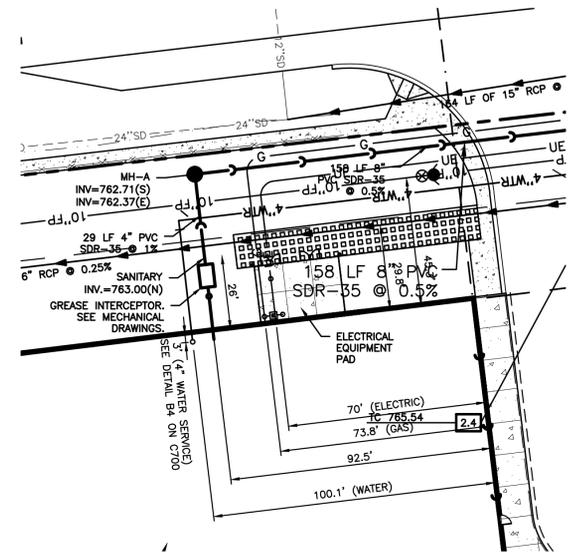
- #### UTILITY SUMMARY
- STORE:**
ELECTRIC: PRIMARY SERVICE, PREFERRED BASED ON RATE, MEIJER OWNED TRANSFORMER 1500 KVA, SECONDARY 480/277V, 3PH, 4W GRD WYE WITH DISCONNECT SWITCH
PHONE: 50 PAIR COPPER AND FIBER OPTIC ENTRANCE CABLE
GAS: 10,000 CFH @ 2 PSI (5 PSI IF AVAILABLE) FOR 1.9 STORE.
WATER: 4" DIA. PIPE WITH 2" METER, 10,000 GPD SUMMER, 5,000 GPD WINTER 80 GPM PEAK USE, 55 PSI AFTER BACKFLOW PREVENTER
FIRE PROTECTION: 10" DIA. MIN., 1,575 GPM @ 35 PSI AT BASE OF RISER
SANITARY SEWER: 5,000 GPD AVG., 40 GPM PEAK FLOW
- CONVENIENCE STORE:**
ELECTRIC: SECONDARY SERVICE, PREFERRED BASED ON RATE, UTILITY OWNED TRANSFORMER 75 KVA PREFERRED (FINAL SIZING BY UTILITY) 400 AMP, SECONDARY 208/120V, 3PH, 4W GRD WYE
PHONE: FED FROM SUPERCENTER, TYPICALLY NO DEDICATED SERVICE
GAS: 180 CFH @ 8" WC
WATER: 1 1/2" DIA. 1" METER
25 GPM PEAK USE, 50 PSI AFTER BACKFLOW PREVENTER.
750 GPD SUMMER, 500 GPD NON-SUMMER.
FIRE PROTECTION: NOT REQUIRED
SANITARY SEWER: 500 GPD AVG. 20 GPM PEAK.

- #### WATER MAIN NOTES
- INSTALL WATER MAIN WITH A MINIMUM OF 54 INCHES OF COVER TO TOP OF MAIN.
 - ON SITE HYDRANTS SHALL FACE THE BUILDING.
 - PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES OF VERTICAL SEPARATION AND TEN (10) FEET OF HORIZONTAL SEPARATION BETWEEN THE WATER MAIN AND ALL SANITARY AND STORM SEWERS.
 - PROVIDE THRUST BLOCKS AT ALL WATER MAIN BENDS, PLUGS AND TEES IF REQUIRED BY MUNICIPALITY. SEE DETAIL A3 ON C700.
 - HYDRANTS LOCATED IN CURB ISLAND OR GREEN SPACE SHALL BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT (TYP.).
 - INSTALL CONCRETE PADS FOR ALL HYDRANT VALVES IN NON-PAVED AREAS. SEE DETAIL A1 ON C700.
- #### STORM SEWER NOTES
- BEFORE COMMENCING WORK, CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.
 - INSTALL UNDERDRAINS AT ALL CATCH BASINS. REFER TO DETAIL B2 ON C700.
 - ALL UNDERDRAINS (UD) ARE 4" DIA. AT MINIMUM SLOPE OF 0.50% UNLESS OTHERWISE NOTED. SEE DETAIL B2 ON C700.
 - END SECTIONS ARE INCLUDED IN PIPE LENGTHS SHOWN.
 - PROVIDE INLET PROTECTION FOR ALL CATCH BASIN INLETS. SEE DETAIL A1 ON C302, DURING CONSTRUCTION.
 - PROVIDE RIPRAP AT ALL END SECTIONS UNLESS OTHERWISE NOTED. SEE DETAIL B5 ON C702.
 - SILT FENCE SHALL BE MAINTAINED AS SHOWN ON SHEET C302 AND DETAIL A1 ON C304.
- #### SANITARY SEWER NOTES
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- #### GAS MAIN NOTES
- GAS COMPANY WILL PROVIDE GAS SERVICE TAP, METER, AND REGULATOR, AND INSTALL THE NEW GAS SERVICE TO THE METER.

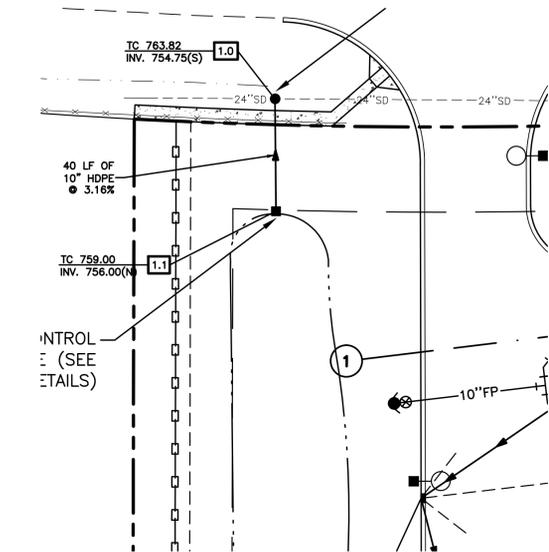
A1 UTILITY PLAN
SCALE: 1" = 60'



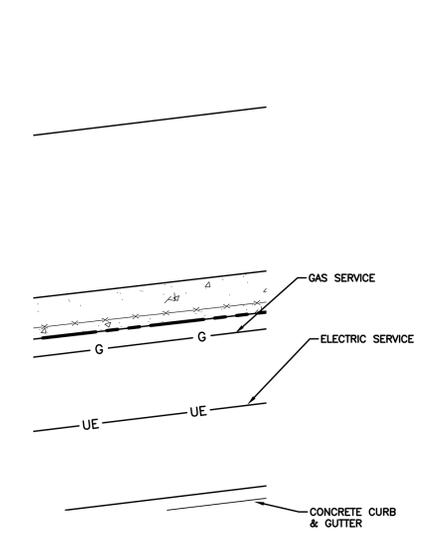
- ### UTILITY PLAN LEGEND
- EXISTING BOUNDARY
 - - - PROPOSED BOUNDARY
 - PROPOSED SANITARY SEWER
 - PROPOSED STORM DRAIN
 - PROPOSED ROOF DRAIN
 - WTR --- PROPOSED WATER MAIN
 - UE --- UE --- PROPOSED ELECTRIC
 - OE --- OE --- PROPOSED OVERHEAD ELECTRIC
 - G --- G --- PROPOSED GAS
 - UT --- UT --- PROPOSED TELEPHONE
 - OT --- OT --- PROPOSED OVERHEAD TELEPHONE
 - UC --- UC --- PROPOSED CABLE
 - --- PROPOSED CONDUIT
 - F --- F --- PROPOSED FIBEROPTIC
 - --- PROPOSED UNDERDRAIN
- PROPOSED CATCH BASIN
 - PROPOSED CURB INLET
 - PROPOSED STORM MANHOLE
 - PROPOSED SANITARY MANHOLE
 - PROPOSED FLARED END SECTION
 - PROPOSED CLEAN OUT
 - ▲ PROPOSED FIRE HYDRANT
 - PROPOSED VALVE
 - ⊙ PROPOSED ELECTRICAL MANHOLE
 - ⊙ PROPOSED TELEPHONE MANHOLE
 - PROPOSED LIGHT POLE
 - ⊙ (MH-A) PROPOSED SANITARY STRUCTURE CALLOUT
 - ⊙ (B2) PROPOSED STORM STRUCTURE CALLOUT
 - ⊔ PROPOSED PLUG



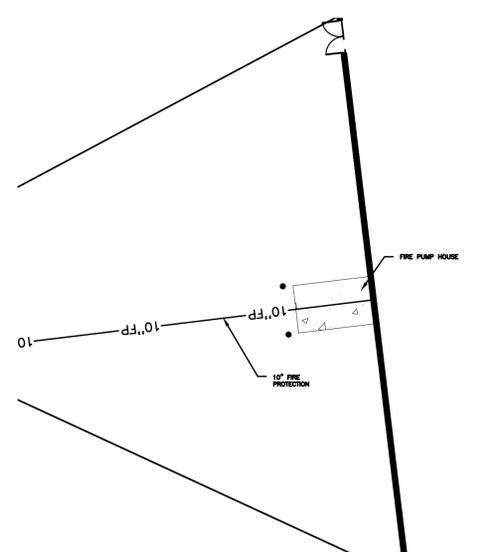
C2 ELECTRICAL EQUIPMENT PAD DETAIL
SCALE: 1" = 30' A1/C400



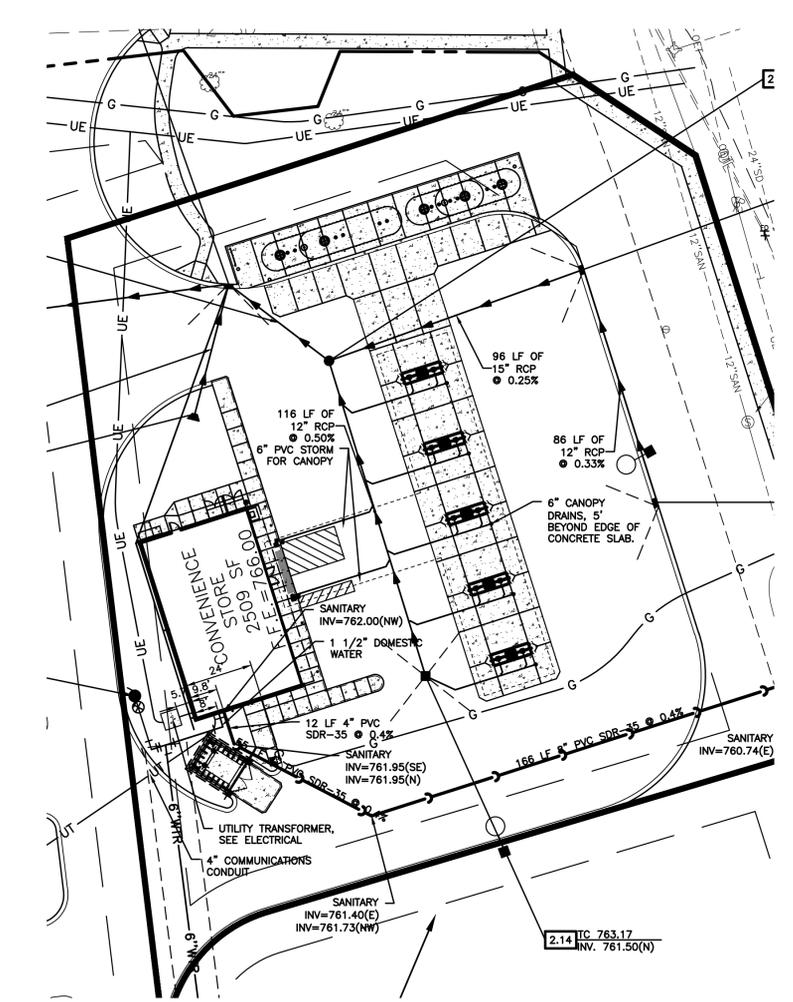
C4 POND OUTFALL DETAIL
SCALE: 1" = 30' A1/C400



C5 UTILITY CORRIDOR
SCALE: 1" = 10' A1/C400



B2 FIRE PUMP DETAIL
SCALE: 1" = 20' A1/C400



A4 ENLARGED CONVENIENCE STORE UTILITIES
SCALE: 1" = 30' A1/C400



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STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

DESIGNED BY: **WOOLPERT**
DESIGN | GEOSPATIAL | INFRASTRUCTURE

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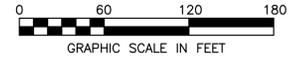
UTILITY PLAN

DRAWN BY: SMB
CHECKED BY: BJH

ISSUE: 1
ISSUE DATE: 11/13/14
MEIJER PROJECT NO.: 74485
WOOLPERT PROJECT NO.: 74485

SHEET NO.: **C401**

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UTILITY PLAN LEGEND

- EXISTING BOUNDARY
- - - - - PROPOSED BOUNDARY
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED ROOF DRAIN
- WTR --- PROPOSED WATER MAIN
- UE --- UE --- PROPOSED ELECTRIC
- OE --- OE --- PROPOSED OVERHEAD ELECTRIC
- G --- G --- PROPOSED GAS
- UT --- UT --- PROPOSED TELEPHONE
- OT --- OT --- PROPOSED OVERHEAD TELEPHONE
- UC --- UC --- PROPOSED CABLE
- PROPOSED CONDUIT
- F --- F --- PROPOSED FIBEROPTIC
- PROPOSED UNDERDRAIN

- PROPOSED CATCH BASIN
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEAN OUT
- ▲ PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- ⊙ PROPOSED ELECTRICAL MANHOLE
- ⊙ PROPOSED TELEPHONE MANHOLE
- □ PROPOSED LIGHT POLE
- ⊙ (MH-A) PROPOSED SANITARY STRUCTURE CALLOUT
- ⊙ (B2) PROPOSED STORM STRUCTURE CALLOUT
- ⊔ PROPOSED PLUG

STORM STRUCTURE TABLE					
STRUCTURE ID	DESCRIPTION	RIM/GRATE	INVERT	CASTING	REMARKS
1.0	48" Dia. MH, Type B	763.82	10" = 754.75 (S)	1022	DOGHOUSE MANHOLE
1.1	Outlet Control Structure (See Details)	759.00	10" = 756.00 (N)	-	
2.0	42" Conc. End Section	760.58	42" = 756.00 (NE)	-	
2.1	72" Dia. MH, Type B	761.62	36" = 756.03 (N) 42" = 756.03 (SW)	7030 T6	
2.2	72" Dia. MH, Type B	761.38	36" = 756.38 (S) 36" = 756.38 (NE)	7030 T6	
2.3	60" Dia. MH, Type B	764.45	36" = 757.50 (E) 36" = 756.92 (SW)	1022	
2.4	60" Dia. MH, Type B	765.54	36" = 758.68 (E) 36" = 758.53 (W)	7010	
2.5	60" Dia. MH, Type B	764.48	30" = 759.25 (E) 18" = 759.80 (S) 36" = 758.91 (W)	5395	
2.6	48" Dia. MH, Type B	764.48	15" = 760.71 (S) 18" = 760.58 (N)	V5140-1	
2.7	4'x3' Inlet Box	764.48	15" = 761.23 (N)	V5140-1	
2.8	60" Dia. MH, Type B	764.50	24" = 759.68 (S) 30" = 759.52 (W) 24" = 759.68 (E)	V5140-1	
2.9	48" Dia. MH, Type B	764.50	18" = 760.25 (S) 24" = 760.00 (N)	V5140-1	
2.10	48" Dia. MH, Type B	764.50	12" = 760.64 (S) 18" = 760.58 (N)	V5140-1	
2.11	3'x3' Inlet Box	764.21	12" = 761.00 (N)	7010	
2.12	72" Dia. MH, Type B	764.21	24" = 760.00 (SE) 24" = 760.00 (W) 12" = 761.36 (S)	7010	
2.13	48" Dia. MH, Type B	764.75	24" = 760.20 (NW) 15" = 760.48 (E) 12" = 760.92 (S)	1022	
2.14	2'x2' Inlet Box	763.17	12" = 761.50 (N)	5250	
2.15	48" Dia. MH, Type B	764.50	15" = 760.72 (W) 12" = 760.72 (S)	7010	
2.16	3'x3' Inlet Box	764.86	12" = 761.00 (N)	7010	
2.17	12" Conc. End Section	763.67	12" = 762.00 (N)	-	
3.0	36" Conc. End Section	760.08	36" = 756.00 (E)	-	

STORM STRUCTURE TABLE					
STRUCTURE ID	DESCRIPTION	RIM/GRATE	INVERT	CASTING	REMARKS
3.1	72" Dia. MH, Type B	765.14	30" = 756.54 (E) 36" = 756.09 (W) 18" = 758.80 (N)	7030 T6	
3.2	4'x3' Inlet Box	764.00	18" = 759.75 (S)	7030 T6	
3.3	60" Dia. MH, Type B	765.07	24" = 757.48 (E) 30" = 757.25 (W)	7030 T6	
3.4	48" Dia. MH, Type B	765.06	24" = 758.03 (W)	7030 T6	
3.5	60" Dia. MH, Type B	763.11	18" = 758.90 (N)	7010	
3.6	48" Dia. MH, Type B	764.00	15" = 760.43 (N) 18" = 759.88 (S)	5395	
3.7	4'x3' Inlet Box	764.25	15" = 760.75 (S)	V5140-1	
4.0	12" Conc. End Section	760.77	12" = 759.10 (N)	-	
4.1	3'x3' Inlet Box	762.50	12" = 759.29 (S)	7010	
4.2	12" Conc. End Section	760.17	12" = 758.50 (SW)	-	
4.3	3'x3' Inlet Box	761.22	12" = 758.62 (NE)	7010	
5.0	18" Conc. End Section	759.83	18" = 757.50 (W)	-	
5.1	60" Dia. MH, Type B	762.28	18" = 757.61 (W) 18" = 757.61 (E) 12" = 757.88 (NW)	1022	
5.2	18" Conc. End Section	760.27	18" = 757.94 (E)	-	
5.3	12" Conc. Headwall	759.74	12" = 758.07 (SE)	-	
5.4	12" Conc. End Section	763.67	12" = 762.00 (W)	-	
5.5	12" Conc. End Section	764.67	12" = 763.00 (E)	-	
5.6	48" Dia. MH, Type B	760.89	15" = 757.30 (W)	6489N	
5.7	12" Conc. End Section	762.67	12" = 761.00 (E)	-	
EX1	Existing Manhole	762.25	15" = 756.50 (E)	1022	
EX2	Existing Manhole	761.30	12" = 758.09 (W)	1022	

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STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
 GRAND RAPIDS, MICHIGAN 49544
 (616) 453-6711

REVISION NO.	REVISION	REV. DATE

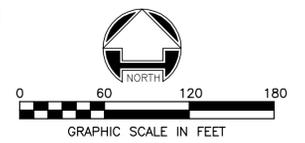
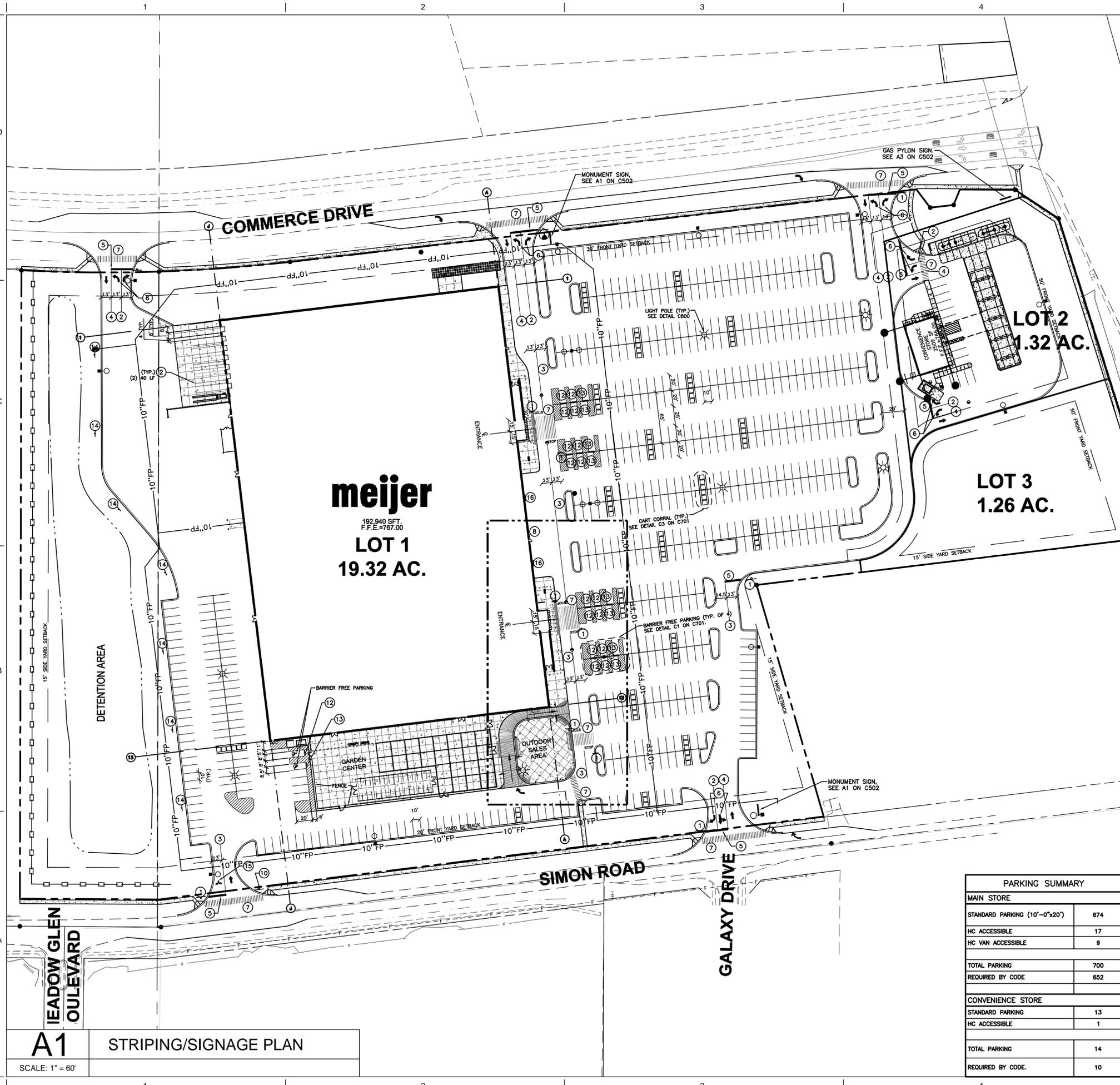
CONSTRUCTION MANAGED BY: _____

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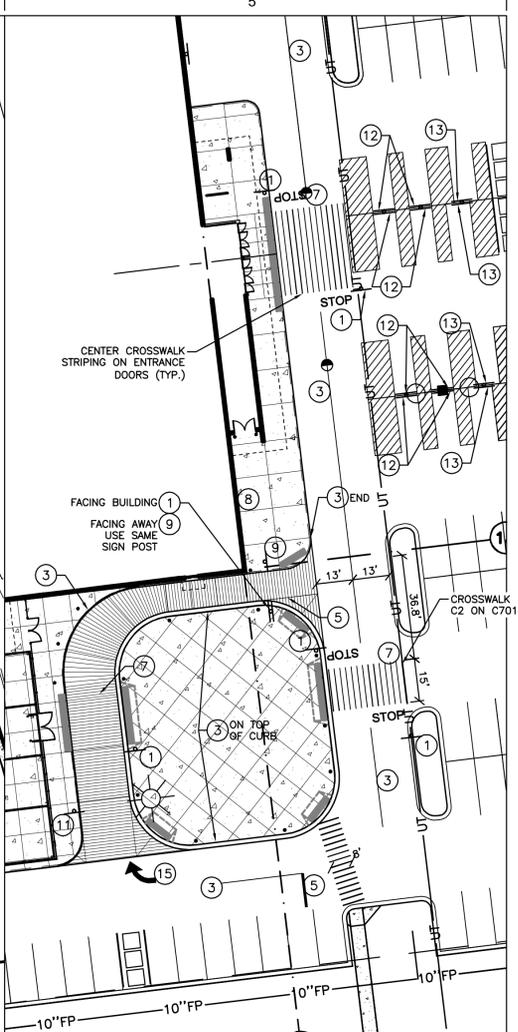


STRUCTURE DATA TABLES			
DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
SMB	1	11/13/14	C402
CHECKED BY	MEIJER PROJECT NO.	WOOLPERT PROJECT NO.	
BJH		74485	



PAVEMENT STRIPING NOTES
 ALL DIMENSIONS MEASURED FROM FACE OF BUILDING
 REFER TO SHEET C701 FOR SIGNAGE STRIPING DETAILS
 ALL PAVEMENT MARKING SHALL BE YELLOW IN COLOR UNLESS NOTED OTHERWISE.
 CROSSWALK STRIPING TO BE CENTERED ON THE BUILDING AND GARDEN CENTER ENTRANCES.

BUILDING AND SITE SIGNAGE NOTES
 LOCATE FIRE LANE SIGNS AT FRONT OF BUILDING AT THE EDGE OF CONCRETE SIDEWALK (4 SIGNS)
 STOP SIGNS AND FIRE LANE SIGNS ALONG FRONT OF THE STORE TO BE ON MOVABLE CONCRETE BASES
 LOCATE FIRE LANE SIGNS ALONG THE GARDEN CENTER ATTACHED TO THE FENCE (3 SIGNS).
 LOCATE FIRE LANE SIGNS ALONG BACK OF BUILDING AND THE TRUCK DOCK AREAS AT 2 FT. BEHIND PAVEMENT IN THE GRASS AREA (7 SIGNS).
 INSTALL CART CORRALS PROVIDED BY OWNER.



B5 PHARMACY DRIVE-UP SIGNAGE ENLARGEMENT

SCALE: 1" = 30'

SIGNAGE / STRIPING LEGEND

- 1 "STOP" SIGN - SEE DETAIL B1 ON C701
 - 2 4" SINGLE SOLID LINE, WHITE
 - 3 4" SINGLE SOLID LINE, YELLOW
 - 4 4" DOUBLE SOLID LINE, YELLOW
 - 5 12" STOP LINE, WHITE
 - 6 LANE ARROWS, WHITE, SEE DETAIL B5 ON C701 "ONLY", WHITE, SEE DETAIL B5 ON C701
 - 7 CROSSWALK - SEE DETAIL C2 ON C701
 - 8 "NO PARKING - FIRE LANE" SIGN
 - 9 "WRONG WAY" SIGN
 - 10 "NO TRUCKS" SIGN
 - 11 "PHARMACY DRIVE-UP" SIGN SEE DETAIL B1 ON C701
 - 12 ACCESSIBLE SIGN SEE DETAIL B1 ON C701
 - 13 VAN ACCESSIBLE SIGN SEE DETAIL B1 ON C701
 - 14 "WARNING - STORMWATER DETENTION POND" SIGN SEE DETAIL B1 ON C702
 - 15 ARROW DETAIL, B5, C701
 - 16 (2) "CURB SIDE SERVICE" SIGN DETAIL B1, C701
 - 17 NOT USED
 - 18 NOT USED
- NO PARKING AREAS
 4" YELLOW OR BLUE STRIPE, PER MUNICIPAL STANDARDS @ 2' O.C. AT 45° TO PARKING SPACE

PARKING SUMMARY	
MAIN STORE	
STANDARD PARKING (10'-0"x20')	674
HC ACCESSIBLE	17
HC VAN ACCESSIBLE	9
TOTAL PARKING	700
REQUIRED BY CODE	652
CONVENIENCE STORE	
STANDARD PARKING	13
HC ACCESSIBLE	1
TOTAL PARKING	14
REQUIRED BY CODE	10



PERMIT SET - NOT FOR CONSTRUCTION



STORE FRK CONSTRUCTION PLANS
 2929 WALKER AVENUE
 GRAND RAPIDS, MICHIGAN 49544
 (616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
 7635 Interactive Way
 Suite 100
 Indianapolis, IN 46278
 317.299.7500
 FAX: 317.291.5805

STRIPING/SIGNAGE PLAN

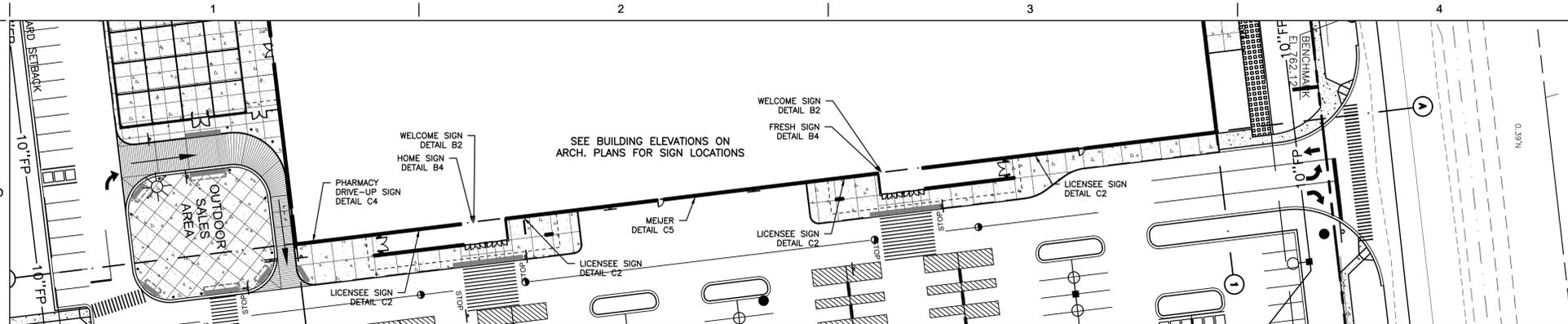
DRAWN BY	KAC	ISSUE	1	ISSUE DATE	11/13/14	SHEET NO.	C500
CHECKED BY	BJH	MEIJER PROJECT NO.		WOOLPERT PROJECT NO.	74485		

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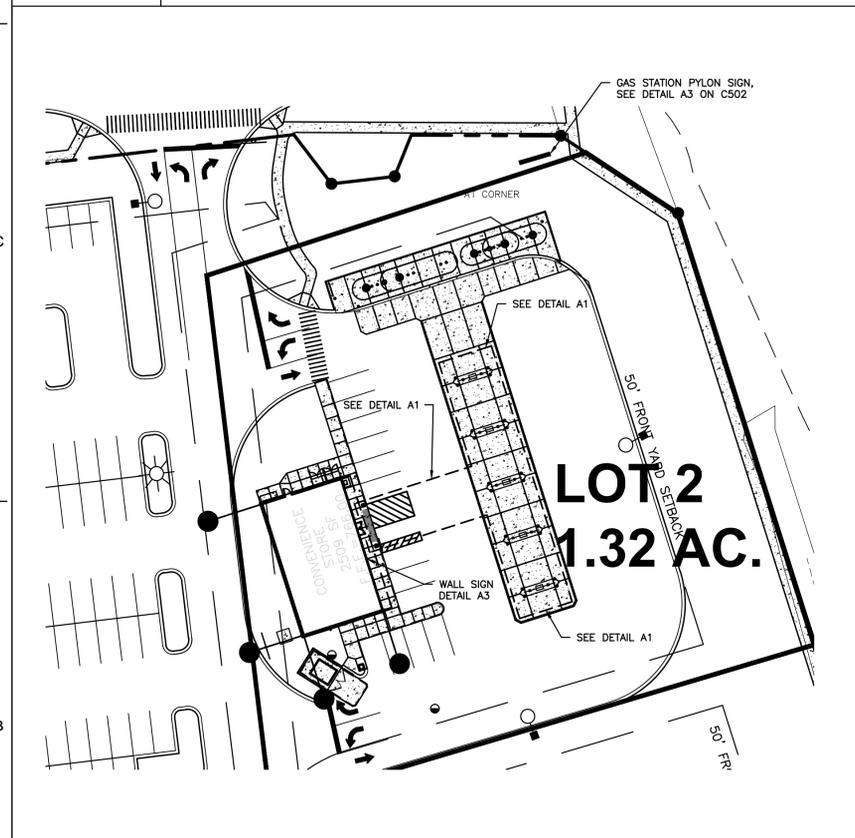
A1 STRIPING/SIGNAGE PLAN

SCALE: 1" = 60'



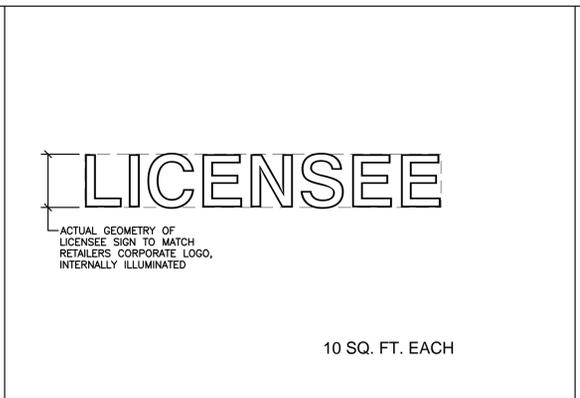
D1 EXTERIOR SIGNAGE PLAN - DS1.9 PROTOTYPE STORE

1" = 40'
A1/C500



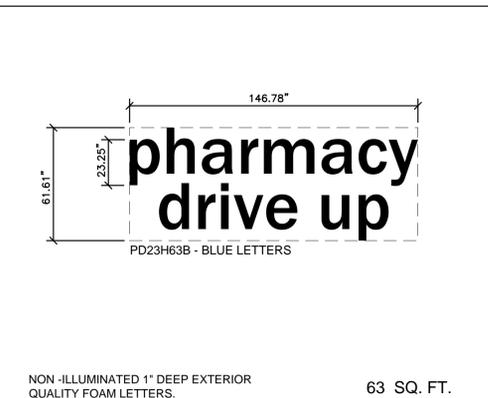
B1 EXTERIOR SIGNAGE PLAN - GAS STATION / CONVENIENCE STORE

1" = 40'
A1/C500



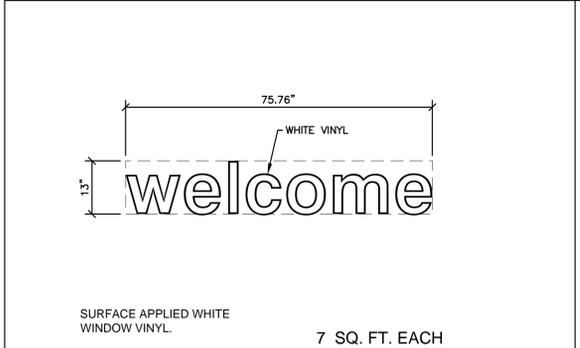
C2 LICENSEE SIGN

NTS



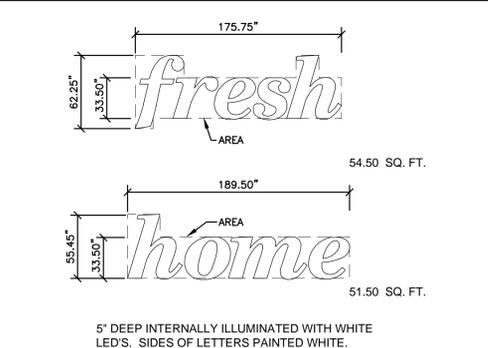
C4 PHARMACY SIGN

NTS PD23H63B / PD23H63W



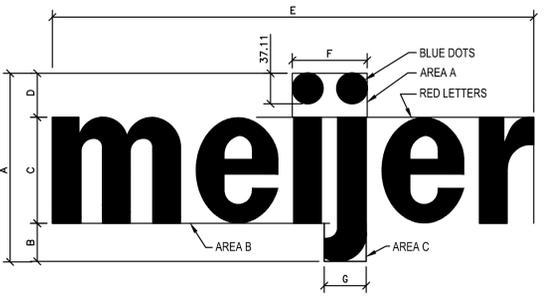
B2 WELCOME SIGN

NTS WV



B4 FRESH / HOME SIGNS

NTS F76H73B



C5 MEIJER LOGO SIGN

NTS

	A	B	C	D	E	F	G	SQ. FT.
WL 160	68"	24.81"	68"	27.94"	308.11"	51.25"	27.31"	160.15
WL 200	134.22"	27.75"	76"	31.31"	344.35"	57.25"	30.56"	199.8
WL 360	180.14"	37.25"	102"	42.06"	462.16"	76.88"	41"	360.38
WL 410	192.17"	39.75"	108.81"	44.88"	493"	82"	43.75"	410.0
WL 506	211.93"	40.98"	122.29"	48.64"	543.724"	90.539"	48.046"	506.01

INTERNALLY ILLUMINATED "MEIJER" CHANNEL LETTERS TO MATCH CORPORATE LOGO & COLORS.
SIDES OF LETTERS & RETAINERS TO BE PAINTED TO MATCH RESPECTIVE FACE COLORS.

506.01 SQ. FT.

STORE SIGNAGE			
DETAIL	NO.	DESCRIPTION	SQUARE FEET
B2	2	welcome	14
C2	4	Licensee	40
C5	1	meijer	506.01
B4	1 ea.	fresh / home	[106]
C4	1	pharmacy	63
Total			[]

CONVENIENCE STORE SIGNAGE			
DETAIL	NO.	DESCRIPTION	SQUARE FEET
A3	1	Convenience Store Wall Sign	25
A1	3	Canopy Logo	60
Total			[85]



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meijer

STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

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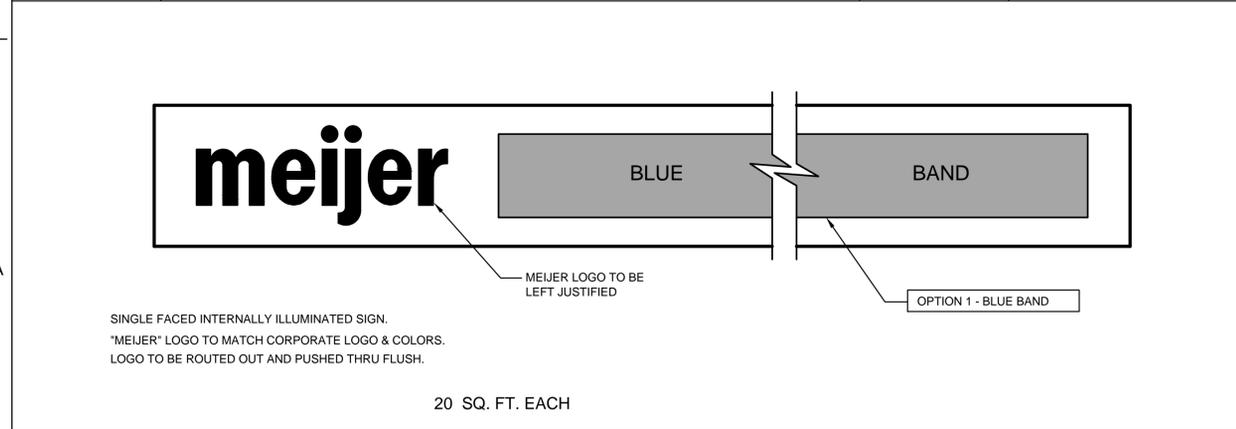
CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

EXTERIOR SIGNAGE PLAN AND DETAILS

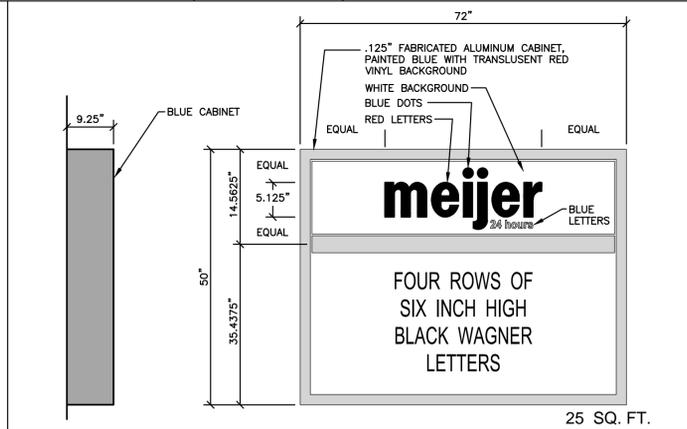
DRAWN BY	JMC	ISSUE	1	ISSUE DATE	11/13/14	SHEET NO.	C501
CHECKED BY	BJH	MEIJER PROJECT NO.	74485	WOOLPERT PROJECT NO.	74485		

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A1 GAS CANOPY SIGN LAYOUT (3 SIDES OF CANOPY)

NTS GAS CANOPY 60



A3 CONVENIENCE STORE WALL SIGN

NTS GAS WSC 25

1

2

3

4

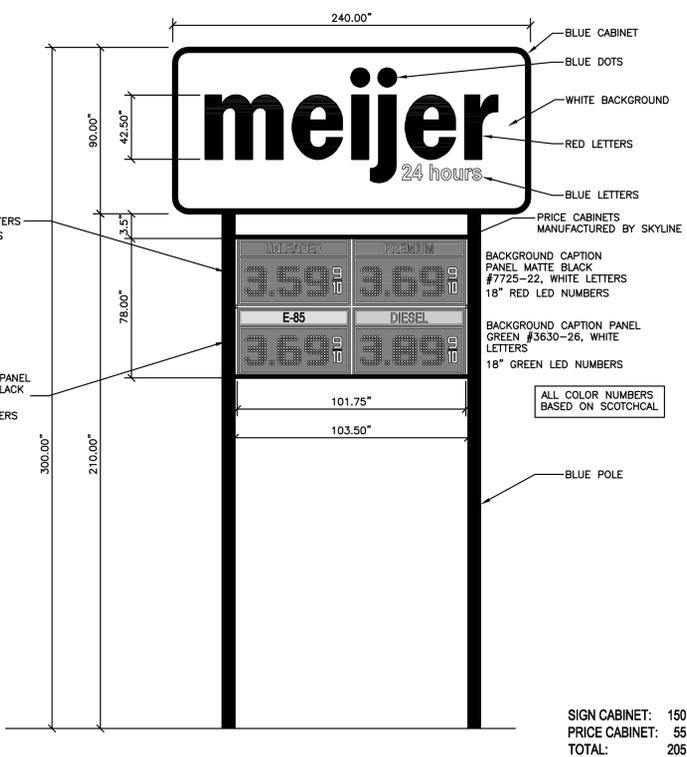
5

D

C

B

A



SITE SIGNAGE			
DETAIL	NO.	DESCRIPTION	SQUARE FEET
A1	2	Monument Sign	55.00
A3	1	Gas Pylon Sign	205.11



PERMIT SET - NOT FOR CONSTRUCTION



**STORE FRK
CONSTRUCTION PLANS**

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
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Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

EXTERIOR SIGNAGE PLAN AND DETAILS

DRAWN BY KAC	ISSUE 1	ISSUE DATE 11/13/14	SHEET NO. C502
CHECKED BY BJH	MEIJER PROJECT NO. 74485	WOOLPERT PROJECT NO. 74485	

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A1
MONUMENT SIGN
NTS

A3
GAS PYLON SIGN
ELECTRONIC GAS LOGO P150/55
NTS

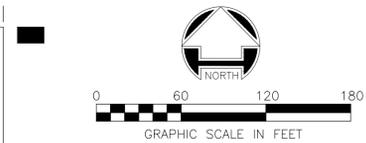
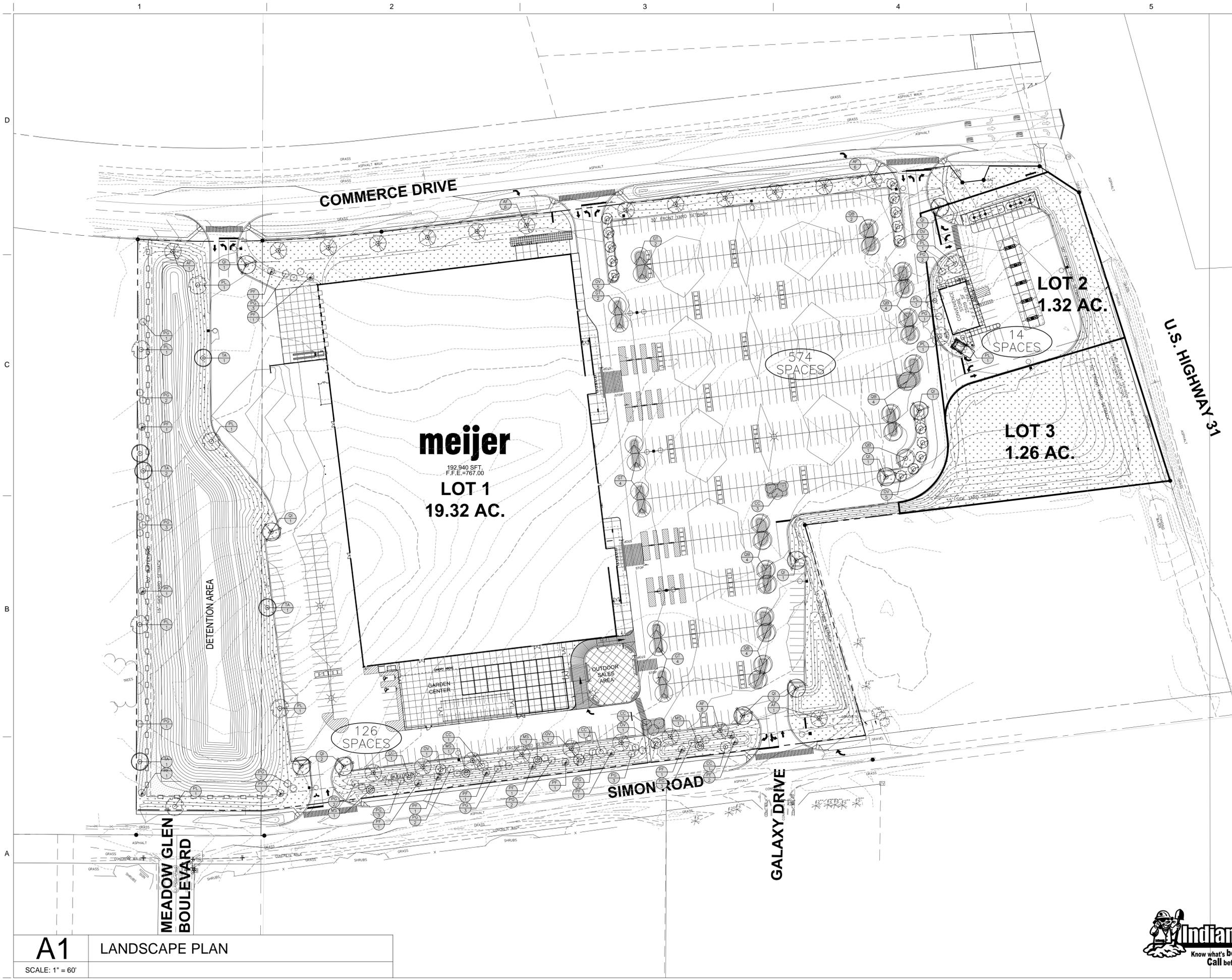
1

2

3

4

5



- LANDSCAPE NOTES**
- COORDINATE PLACEMENT OF PLANTS WITH UTILITY LOCATIONS. MAKE ADJUSTMENTS AS REQUIRED TO AVOID PLANTING OVER THE UTILITIES.
 - THE CENTER OF LARGE ISLANDS IS TO BE SIX INCHES HIGHER THAN TOP OF CURB. ENSURE ALL ISLANDS ARE SLOPED FOR POSITIVE DRAINAGE.
 - ALL AREAS THAT REQUIRE SEEDING SHALL RECEIVE 4" TO 6" MINIMUM TOPSOIL, UNLESS NOTED OTHERWISE.
 - SEED ALL AREAS INDICATED ON THE LANDSCAPE PLAN, THE SOIL EROSION CONTROL PLAN AND ALL DISTURBED AREA. REVIEW AREAS OF SEEDING WITH CONSTRUCTION MANAGER PRIOR TO ANY SEEDING. ANY AREAS DISTURBED BY THE CONTRACTOR WHICH ARE BEYOND THE LIMITS OF GRADING AND EARTHWORK SHALL BE SEED AT NO ADDITIONAL COST TO THE OWNER.
 - APPLY STARTER FERTILIZER (16-32-4) AT 250 POUNDS/ACRE TO SEEDER AREAS.
 - ALL LANDSCAPE ISLANDS SHALL BE 6" DEEP SHREDDED HARDWOOD MULCH EXCEPT AS NOTED.
 - ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE FRANKLIN, INDIANA LANDSCAPE ORDINANCE.
 - ALL LANDSCAPE MATERIAL INSTALLED SHALL BE MAINTAINED BY THE LANDSCAPE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER.
 - ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1, CURRENT EDITION.

- LANDSCAPE CODE SUMMARY**
- PROPERTY INTERIOR REQUIREMENTS - 7.16.D**
 25% OF SITE TO BE YARD AREA PER 3.19 MIXED-USED: REGIONAL CENTER (MXR) REQUIREMENTS
 1 TREE PER 1,500 SF OF REQUIRED YARD AREA
- REQUIRED:**
 957,000 SF PROPERTY = 239,250 SF REQUIRED YARD AREA
 239,259 SF YARD AREA = 159.5 TREES
- PROVIDED:**
 78 CANOPY TREES
 50 EVERGREEN TREES
 32 ORNAMENTAL TREES
 (160 TOTAL TREES THAT ALSO INCLUDE ALL TREES REQUIRED BY THE FOLLOWING LANDSCAPE STANDARDS)
- PARKING LOT PERIMETER REQUIREMENTS - 7.16.E**
 1 TREE AND 1 SHRUB FOR EVERY 80 LF OF PARKING ADJACENT TO PROPERTY LINE
- REQUIRED:**
 COMMERCE DR (412 LF): 5.15 TREES & SHRUBS
 SIMON ROAD (649.6 LF): 8.12 TREES & SHRUBS
- PROVIDED:**
 COMMERCE DR (412 LF): 6 CANOPY TREES
 SIMON ROAD (649.6 LF): 9 CANOPY TREES
- PARKING LOT INTERIOR REQUIREMENTS - 7.16.F**
 5% OF ALL PAVED SURFACE TO BE LANDSCAPE AREAS
 1 DECIDUOUS TREE PER 300 SF OF REQUIRED LANDSCAPE AREA
- REQUIRED:**
 460,000 SF PAVED SURFACE = 23,000 SF LANDSCAPE AREA
 23,000 SF LANDSCAPE AREA = 76 TREES
- PROVIDED:**
 25,000 SF LANDSCAPE AREA
 47 CANOPY TREES
 8 EVERGREEN TREES
 21 ORNAMENTAL TREES
- BUFFER YARD REQUIREMENTS - 7.17.A.2**
 BUFFER YARD TYPE 2: ONE DECIDUOUS TREE OR TWO CONIFEROUS TREES PER 25 LF OF BOUNDARY
- REQUIRED:**
 SIMON ROAD (907.2 LF): 36.3 DECIDUOUS OR 72.6 CONIFEROUS
- PROVIDED:**
 9 CANOPY TREES FROM REQUIREMENT 7.16.F
 32 EVERGREEN TREES
 11 ORNAMENTAL TREES

PERMIT SET - NOT FOR CONSTRUCTION



STORE FRK CONSTRUCTION PLANS
 2929 WALKER AVENUE
 GRAND RAPIDS, MICHIGAN 49544
 (616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
 DESIGN | GEOSPATIAL | INFRASTRUCTURE
 7635 Interactive Way
 Suite 100
 Indianapolis, IN 46278
 317.299.7500
 FAX: 317.291.5805

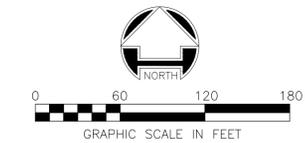
LANDSCAPE PLAN

DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
JM	1	11/13/14	C600
CHECKED BY	MEIJER PROJECT NO.	WOOLPERT PROJECT NO.	
BJH	74485		

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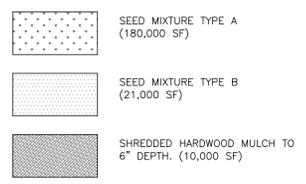


A1 LANDSCAPE PLAN
 SCALE: 1" = 60'



LAWN AREA SEED MIXTURE (TYPE A)			
COMMON NAME	PROPT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
KENTUCKY BLUE GRASS	30%	90%	80%
RED FESCUE	50%	95%	80%
PERENNIAL RYE GRASS	20%	95%	80%

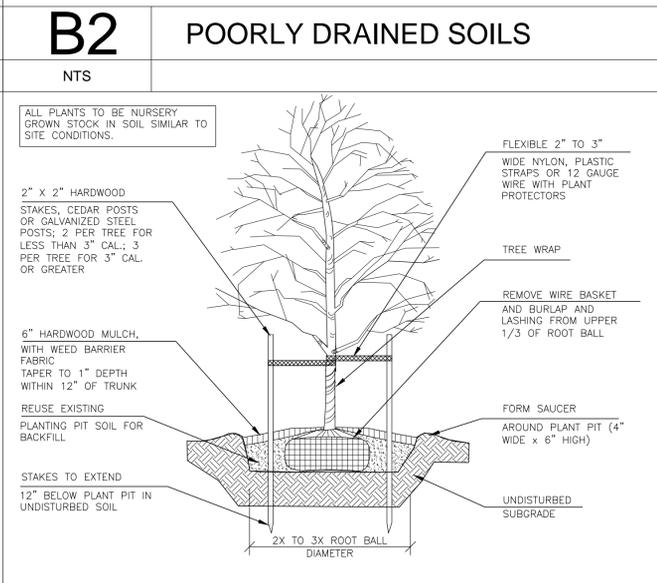
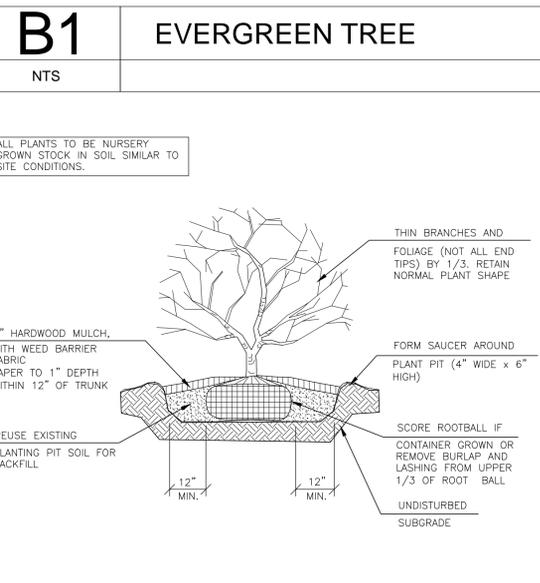
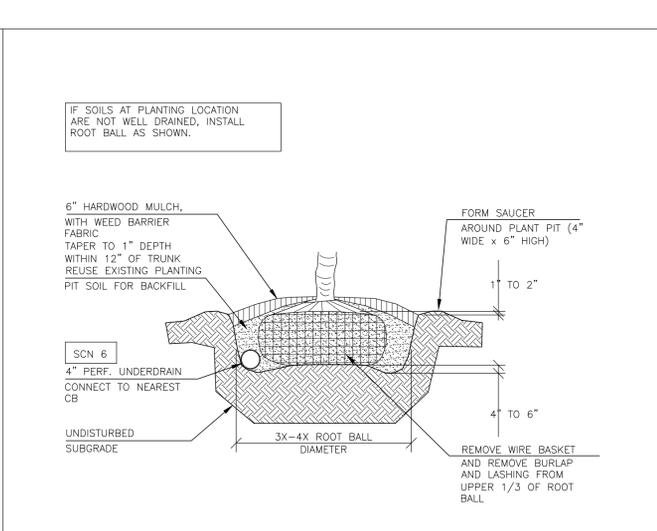
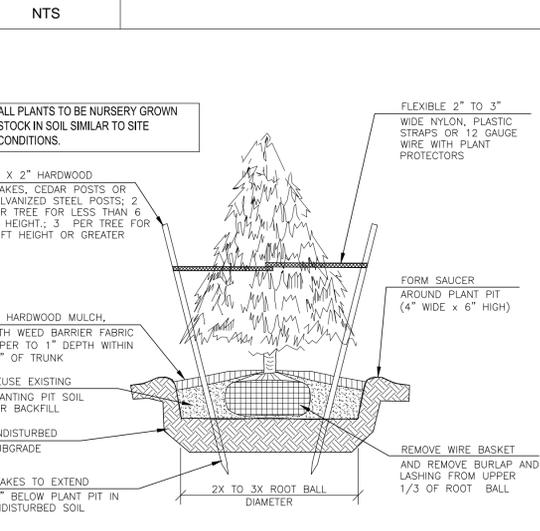
APPLICATION RATE: 8 LBS/1000 FT²



NON-LAWN AREA (TYPE B)			
COMMON NAME	PROPT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
KENTUCKY BLUE GRASS	10%	90%	80%
RED FESCUE	40%	95%	80%
PERENNIAL RYE GRASS	50%	95%	80%

APPLICATION RATE: 4 LBS/1000 FT²

C1 LANDSCAPING LEGEND



A1 SHRUB PLANTING

A2 DECIDUOUS TREE PLANTING

A3 LANDSCAPE PLANT SCHEDULE

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS
BROAD LEAF / DECIDUOUS TREE						
AF	22	<i>Acer x freemanii</i> 'Jeffersred'	Autumn Blaze Maple	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
CC	10	<i>Cercis canadensis</i>	Eastern Redbud	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
GT	12	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Draves'	Street Keeper Honeylocust	B&B	2.5" cal. 14'ht. 5'wd	Full, well shaped
MS	4	<i>Malus</i> 'Snowdrift'	Snowdrift Crabapple	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
OV	18	<i>Ostrya virginiana</i>	Hop Hornbeam	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
PL	10	<i>Platanus x acerifolia</i> 'Bloodgood'	London Planetree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
TA	5	<i>Tilia americana</i> 'Redmond'	Redmond American Linden	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
QB	19	<i>Quercus bicolor</i>	Swamp White Oak	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
QI	10	<i>Quercus imbricaria</i>	Shingle Oak	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
EVERGREEN TREE						
PG	35	<i>Picea glauca</i> 'Densata'	Black Hills Spruce	B&B	8'ht. x 4'wd.	Full to ground, well shaped
PF	15	<i>Pinus flexis</i>	Limber Pine	B&B	8'ht. x 4'wd.	Full to ground, well shaped

PERMIT SET - NOT FOR CONSTRUCTION



STORE FRK CONSTRUCTION PLANS
 2929 WALKER AVENUE
 GRAND RAPIDS, MICHIGAN 49544
 (616) 453-6711

REVISION NO.	REVISION	REV. DATE

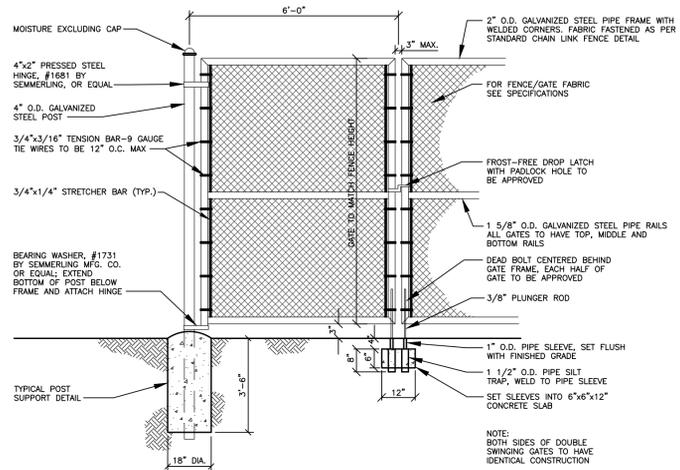
CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
 7635 Interactive Way
 Suite 100
 Indianapolis, IN 46278
 317.299.7500
 FAX: 317.291.5805

LANDSCAPE DETAILS

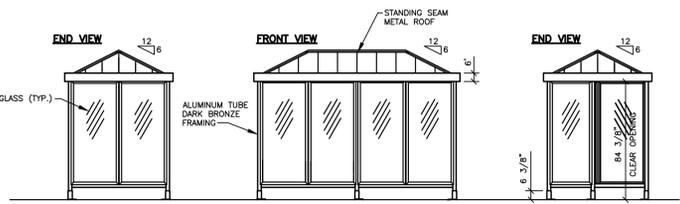
DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
JM	1	11/13/14	C601
CHECKED BY	MEIJSER PROJECT NO.	WOOLPERT PROJECT NO.	
BJH		74485	

QUANTITIES ARE PROVIDED CONVIENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OF PLANTS ON LANDSCAPE PLAN.



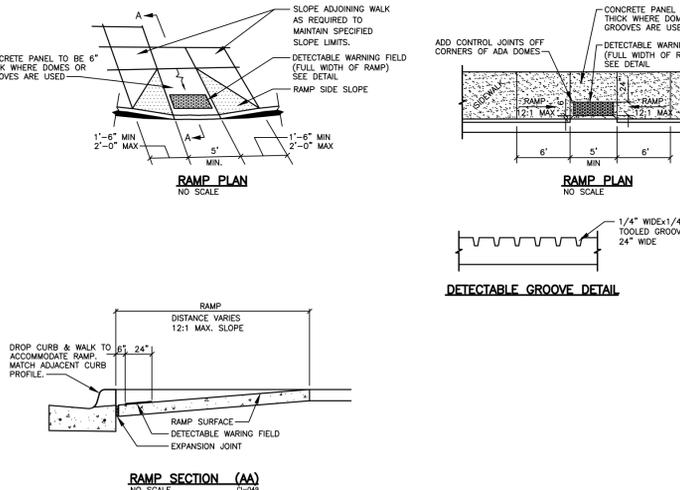
D2 DOUBLE GATE CHAIN LINK FENCE DETAIL

NTS



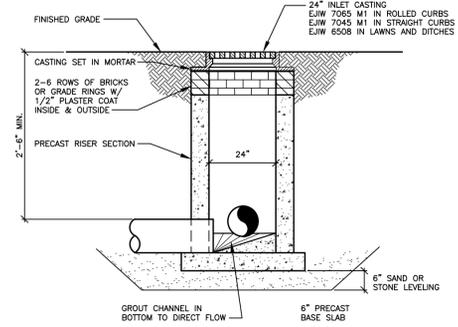
B2 SMOKING SHELTER / BUS SHELTER

NTS



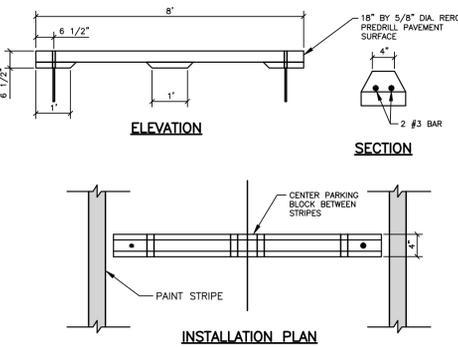
A2 SIDEWALK RAMP DETAILS

NTS



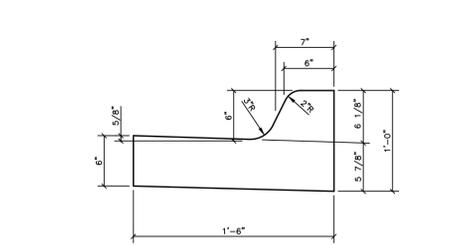
D4 24 DIA. CATCH BASIN

NTS



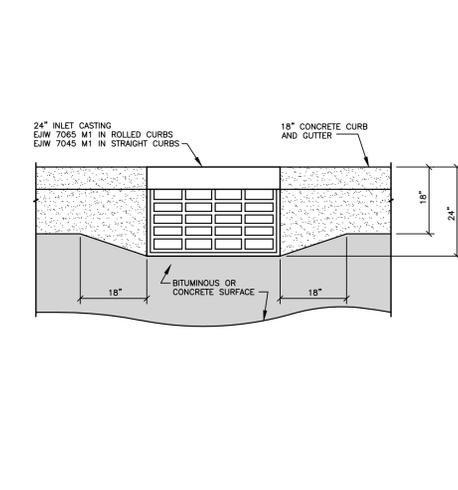
C4 PRECAST CONCRETE PARKING BLOCK

NTS



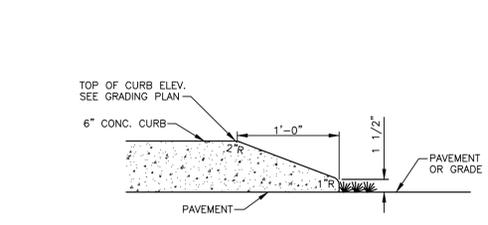
B4 STRAIGHT CURB

NTS



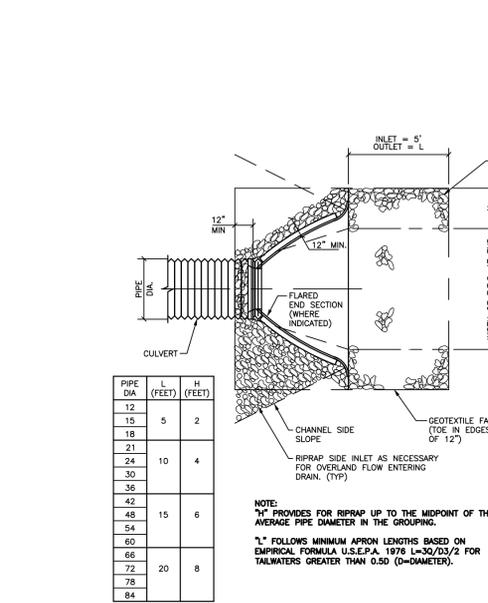
A4 CURB TRANSITION DETAIL

NTS



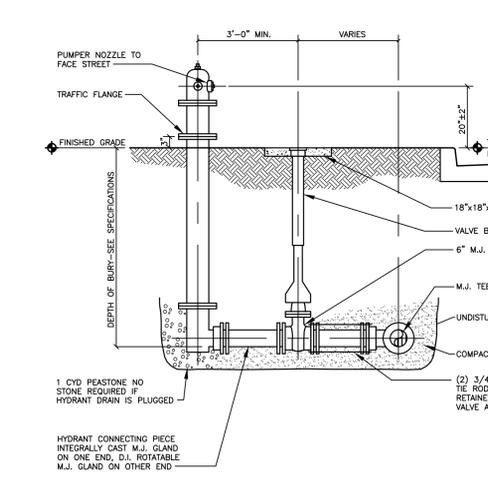
D5 CURB END TAPER

NTS



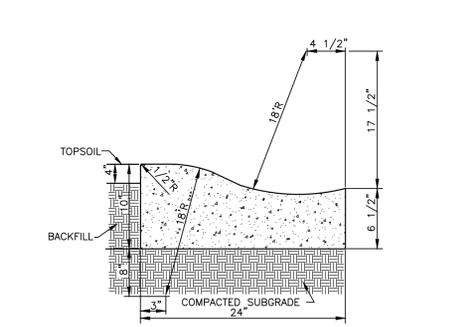
B5 RIPRAP END TREATMENT DETAIL

NTS



A5 HYDRANT ASSEMBLY DETAIL

NTS



A1 2' ROLL CURB & GUTTER

NTS



PERMIT SET - NOT FOR CONSTRUCTION

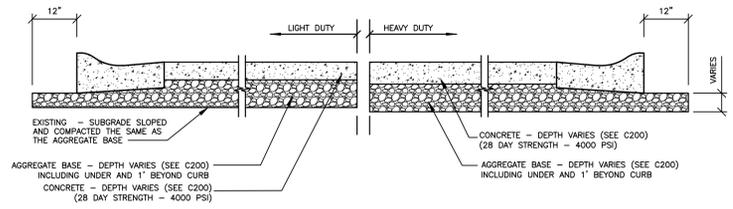


STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
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DESIGNED BY: **WOOLPERT**
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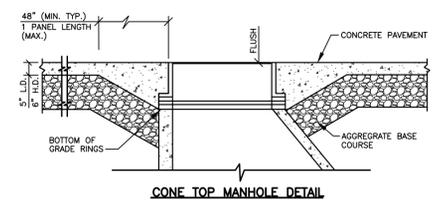
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DRAWN BY: SMB
CHECKED BY: BJB
ISSUE: 1
ISSUE DATE: 11/13/14
SHEET NO.: C702
MEUER PROJECT NO.:
WOOLPERT PROJECT NO.: 74485
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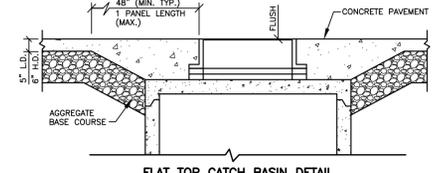
- NOTES:**
- 1) ALL MATERIALS SHALL CONFORM TO CURRENT INDOT STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - 2) REFER TO SHEET C200 FOR ALL CONCRETE AND BASE THICKNESSES AND REINFORCEMENT REQUIREMENTS FOR ALL AREAS OF CONCRETE. REFER TO STRUCTURAL PLANS FOR ALL STRUCTURAL CONCRETE PER C200.
 - 3) THE POURING FOR BOTH TYPES CAN BE COMPLETED AT THE SAME TIME. ALL PAVEMENT JOINTS SHOULD BE IN CONFORMANCE WITH DETAILS PROVIDED ON THIS SHEET.
 - 4) SEE SPECIFICATIONS FOR MODIFICATIONS TO STANDARD CONCRETE D.O.T. MIXES.

D2 LIGHT DUTY/HEAVY DUTY CONCRETE PAVEMENT SECTION

NTS



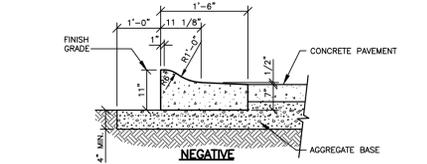
CONE TOP MANHOLE DETAIL



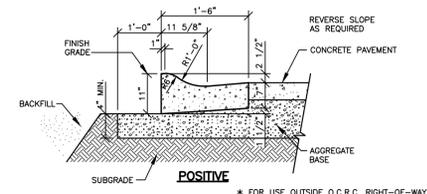
FLAT TOP CATCH BASIN DETAIL

D4 (TYP.) PAVEMENT AT MH AND CB

NTS



NEGATIVE

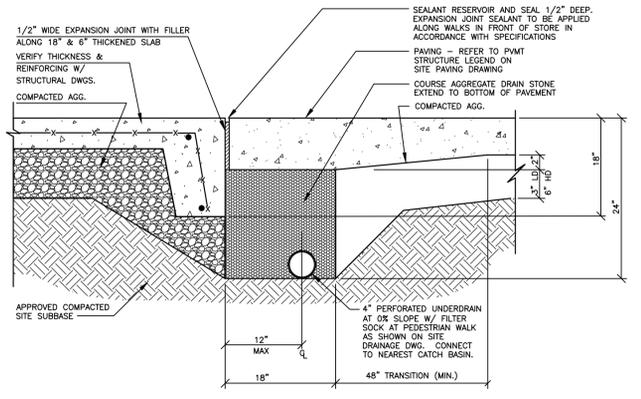


POSITIVE

- * FOR USE OUTSIDE O.C.R.C. RIGHT-OF-WAY INFLUENCE.
- * CURBS MAY BE INSTALLED INTEGRALLY WITH SLAB POUR AT CONTRACTOR'S OPTION.

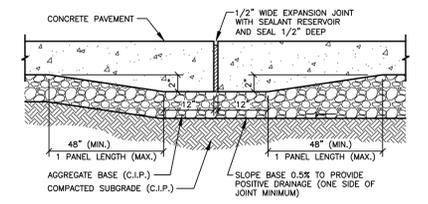
D5 CURB & GUTTER DETAIL

NTS



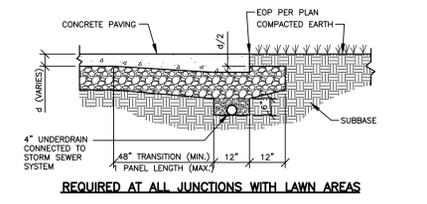
C2 UNDERDRAIN AT BUILDING FRONT SIDE WALK

NTS

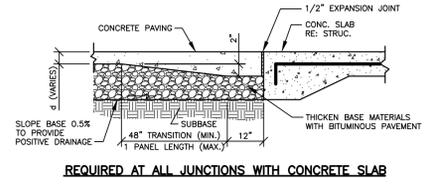


C4 EXPANSION JOINT

NTS



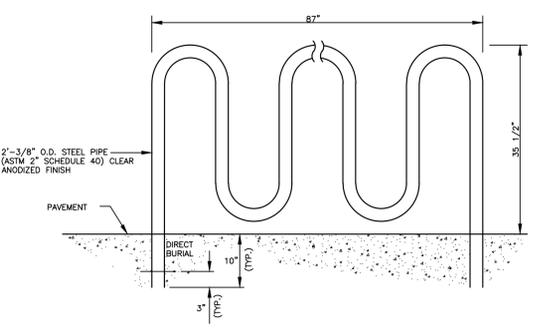
REQUIRED AT ALL JUNCTIONS WITH LAWN AREAS



REQUIRED AT ALL JUNCTIONS WITH CONCRETE SLAB

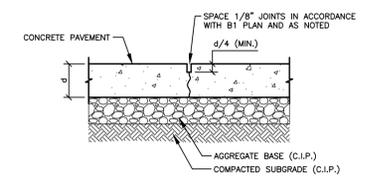
C5 CONCRETE PAVEMENT EDGE DETAIL

NTS



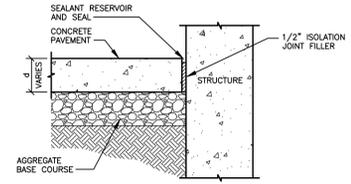
B2 BICYCLE RACK

NTS



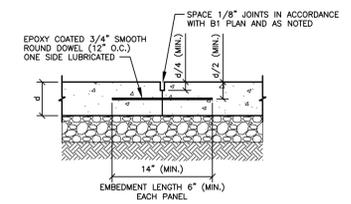
B4 CONTRACTION JOINT (UNDOWELED)

NTS



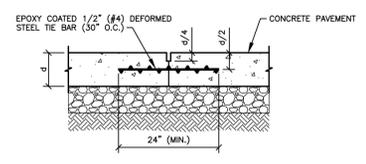
B5 CONCRETE PAVEMENT EDGE

NTS



A4 DOWELED BUTT JOINT

NTS



A5 TIED BUTT JOINT

NTS



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STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

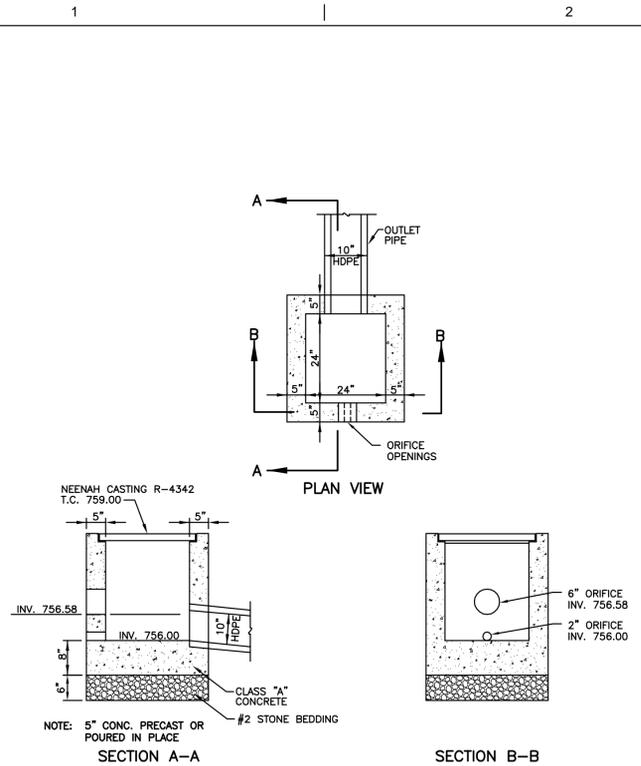
CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

CONCRETE PAVING DETAILS

DRAWN BY: SMB
ISSUE: 1
ISSUE DATE: 11/13/14
SHEET NO.: C703
CHECKED BY: BJH
MEIJER PROJECT NO.:
WOOLPERT PROJECT NO.: 74485

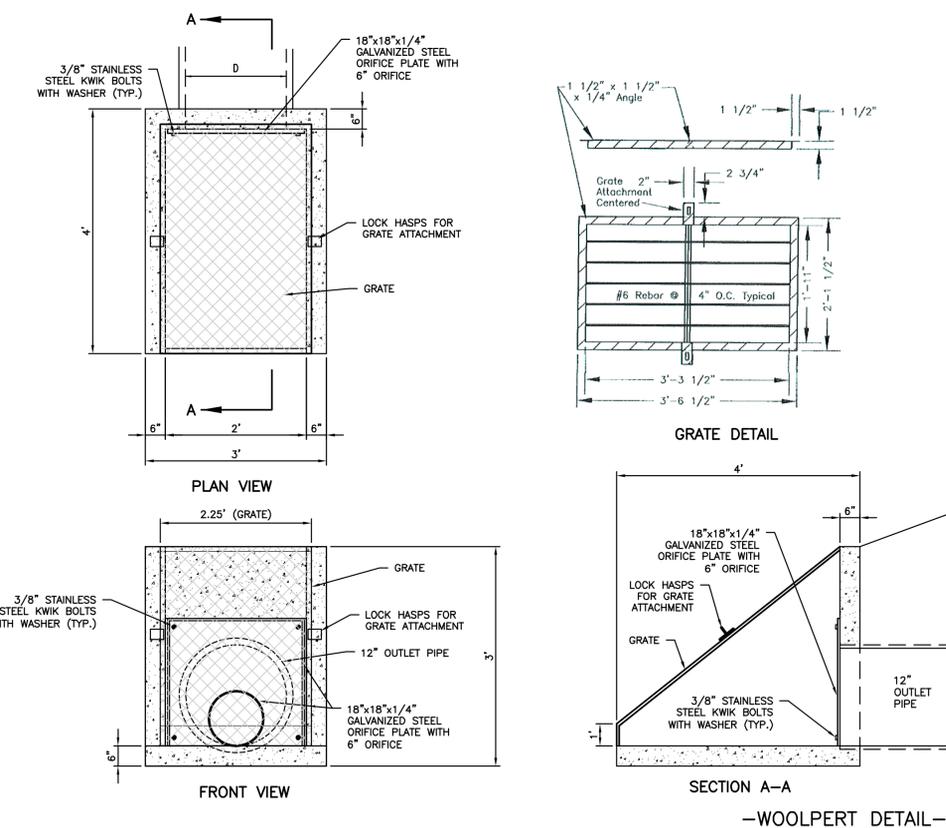
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-WOOLPERT DETAIL-

C1 WET POND OUTLET STRUCTURE

NTS A1/C400



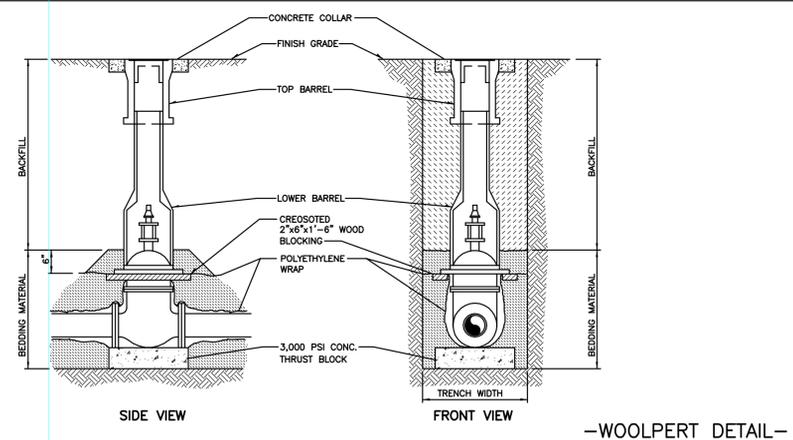
-WOOLPERT DETAIL-

A1 DRY POND OUTLET STRUCTURE

NTS A1/C400

B3 AQUA-SWIRL AND MANHOLE COVER DETAIL

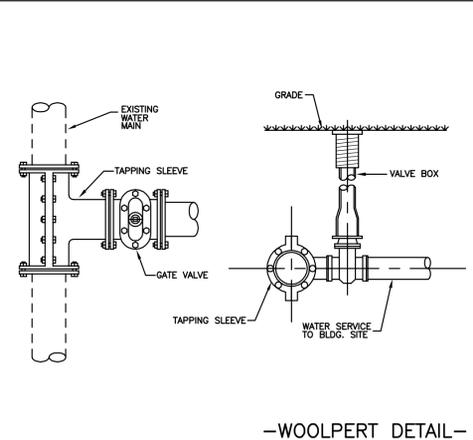
NTS A1/C400



-WOOLPERT DETAIL-

A3 GATE VALVE BOX SETTING

NTS A1/C400



-WOOLPERT DETAIL-

A5 WATER MAIN DETAIL

NTS A1/C400



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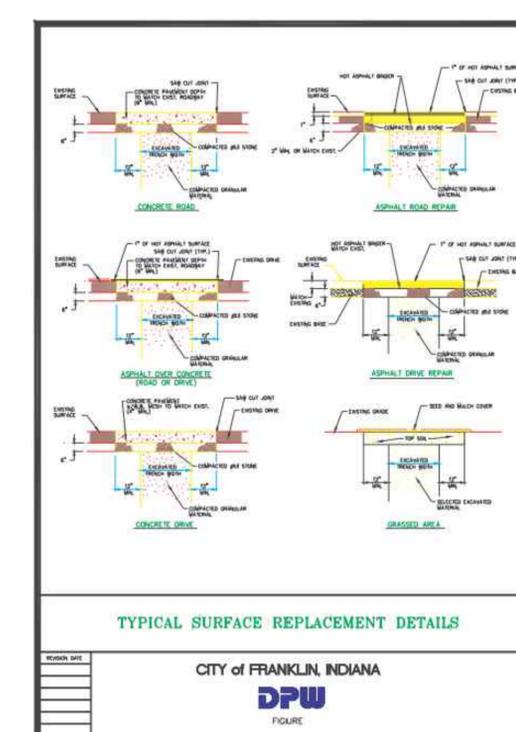
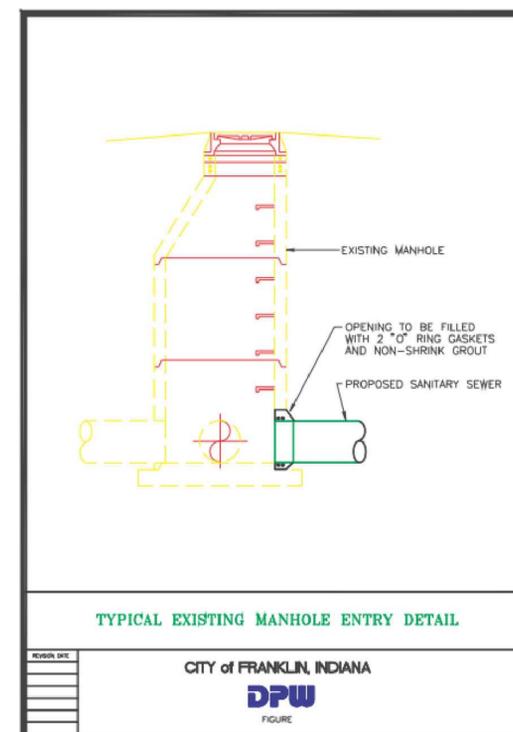
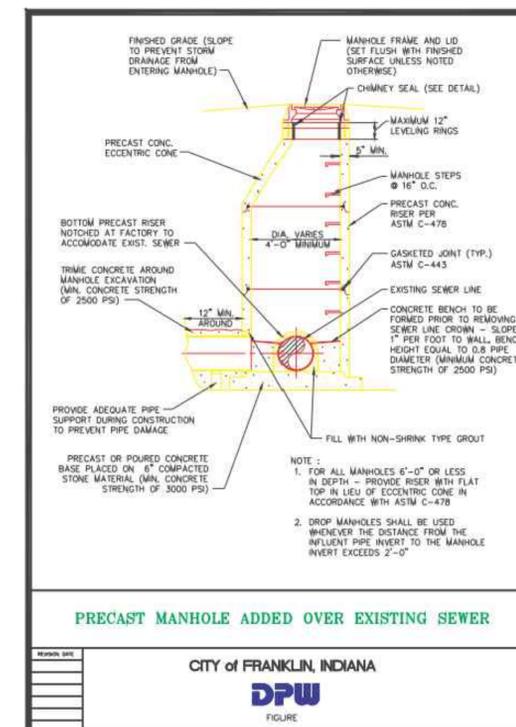
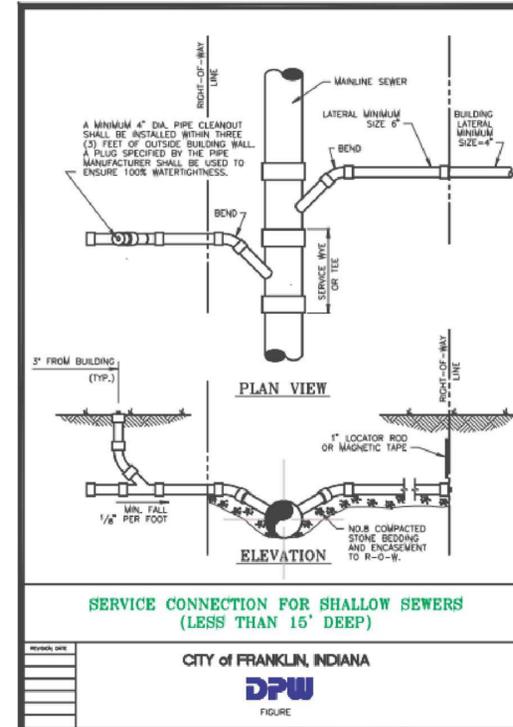
DESIGNED BY:

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DETAILS

DESIGNED BY: **SMB** ISSUE: **1** ISSUE DATE: **11/13/14** SHEET NO. **C704**
 CHECKED BY: **BJH** MEJER PROJECT NO. **74485** WOOLPERT PROJECT NO. **74485**
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REVISION NO.	REVISION	REV. DATE

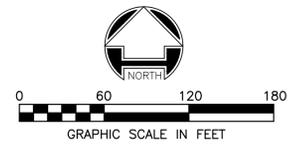
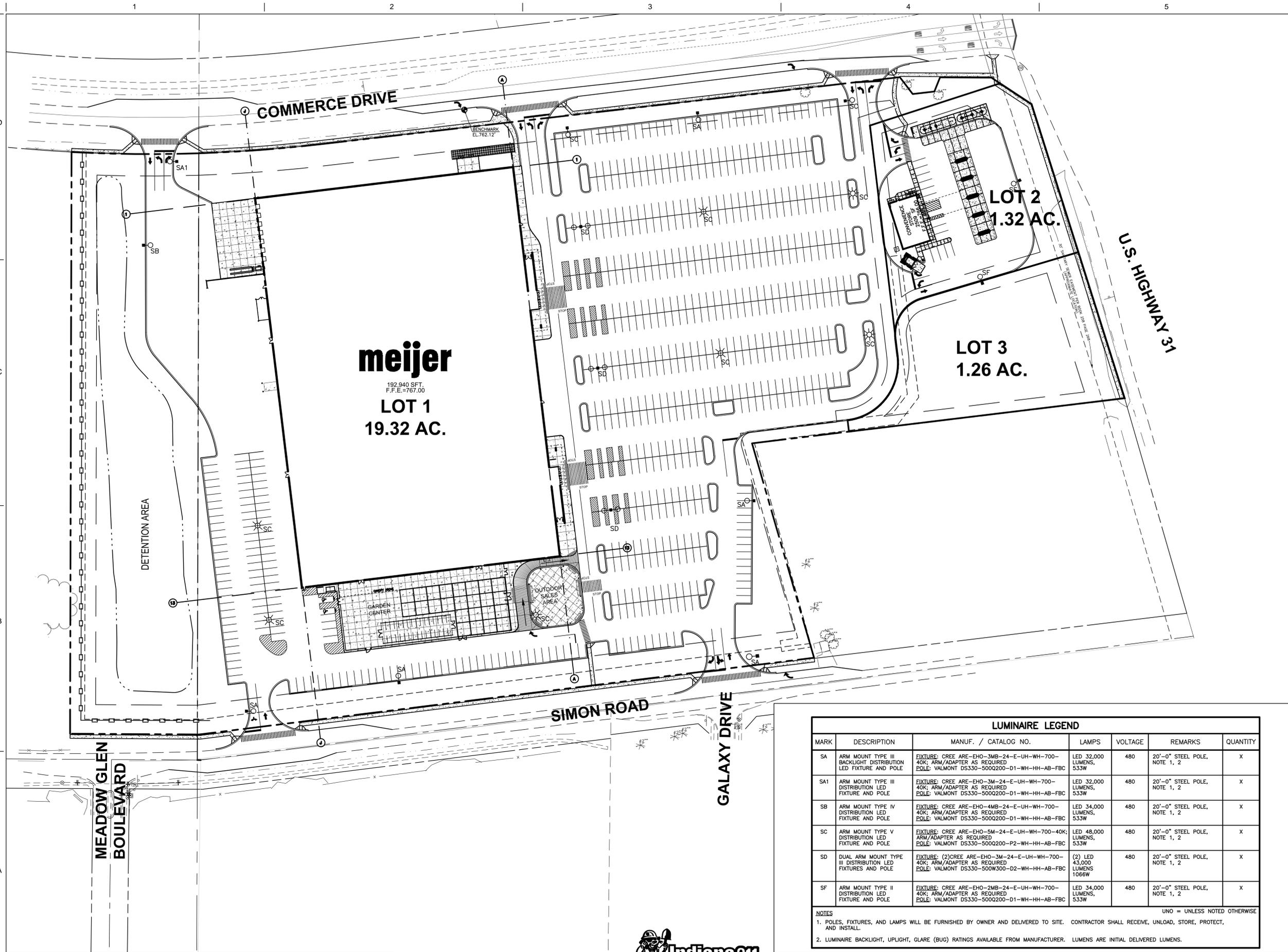
CONSTRUCTION MANAGED BY:

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CITY OF FRANKLIN DETAILS

DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
SMB	1	11/13/14	C705
CHECKED BY	MEIJER PROJECT NO.	WOOLPERT PROJECT NO.	
BJH		74485	

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UTILITY COORDINATION NOTES

SUPERCENTER TELEPHONE SERVICE: FRONTIER CONTRACTOR SHALL PROVIDE (2) 4" SCHEDULE 40 PVC CONDUIT FROM PROPERTY LINE TO SERVER ROOM, 6" ABOVE FLOOR AT VOICE SERVER LOCATION. (1) 4" CONDUIT SHALL BE PRESERVED FOR FUTURE USE.

SUPERCENTER ELECTRIC SERVICE: DUKE ENERGY, 12,470V CONTRACTOR SHALL PROVIDE (1) 4" SCHEDULE 40 PVC CONDUIT FROM UTILITY SERVICE POLE TO PRIMARY SWITCH AND FROM PRIMARY SWITCH TO PADMOUNT TRANSFORMER LOCATION. CONTRACTOR SHALL PROVIDE (3) 15KV #2 COPPER TYPE MV CABLES, 100% INSULATED, TYPE XLPE AND #6 (800V) GROUND. TERMINATE BOTH ENDS OF CABLES WITH APPROVED STRESS RELIEF TERMINAL KITS. PROVIDE LIGHTNING ARRESTORS ON SUPPLY END OF PRIMARY SERVICE CABLE.

GAS STATION/CONVENIENCE STORE: DUKE ENERGY, 12,470V CONTRACTOR SHALL PROVIDE (1) 4" SCHEDULE 40 CONDUIT FROM TELEPHONE BOX ON MENARD'S PROPERTY TO THE TRANSFORMER PAD NEAR THE GAS STATION BUILDING. CONTRACTOR SHALL PROVIDE CONDUITS AND WIRING FROM TRANSFORMER SECONDARY TO BUILDING SERVICE PANEL IN ACCORDANCE WITH BUILDING ELECTRICAL DRAWINGS.

GENERAL NOTES

CONDUITS IN GRASS AREAS SHALL BE BURIED 1'-6" MINIMUM BELOW FINISHED GRADE WITH WARNING TAPE 6" ABOVE CONDUIT UNLESS NOTED OTHERWISE.

CONDUITS BELOW PAVEMENT SHALL BE BURIED 2'-0" MINIMUM UNDER BASE COURSE OF PAVEMENT.

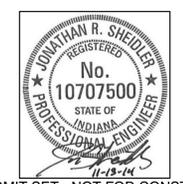
ROUTE CONDUITS TO AVOID UTILITY AND PLANTING LOCATIONS.

COORDINATE LOCATION OF CONDUITS WITH UTILITY COMPANY. PROVIDE STEEL PULL WIRE AND MEASURED PULL STRING IN EACH CONDUIT. ALL 90° ELBOWS SHALL BE GALVANIZED STEEL LONG SWEEP BENDS.

LIGHTING WITHIN THE PAVEMENT AREA IS TO BE CENTERED ON A PARKING STRIPE INTERSECTION AND PERIMETER POLE BASES ARE TO BE CENTERED AT 5 FT. BACK OF PAVEMENT.

EXTEND CIRCUIT CONDUITS AND WIRE TO FRONT OF STORE DISTRIBUTION/CONTROLS LOCATION. SEE BUILDING DRAWINGS FOR DETAILS.

DO NOT ROUTE ANY ELECTRICAL CONDUITS WITHIN 20 FEET OF ANY FUEL DISPENSER, OR WITHIN 10 FEET OF ANY BURIED FUEL TANK, OR 5 FEET OF FUEL TANK AIR VENT PIPES.



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STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

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SITE ELECTRICAL PLAN

DRAWN BY: XXX
ISSUE: 1
ISSUE DATE: 11/13/14
SHEET NO.: C800

CHECKED BY: BJH
MEIJER PROJECT NO.:
WOOLPERT PROJECT NO.: 74485

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LUMINAIRE LEGEND						
MARK	DESCRIPTION	MANUF. / CATALOG NO.	LAMPS	VOLTAGE	REMARKS	QUANTITY
SA	ARM MOUNT TYPE III BACKLIGHT DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-3MB-24-E-UH-WH-700-40K; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q200-D1-WH-HH-AB-FBC	LED 32,000 LUMENS, 533W	480	20'-0" STEEL POLE, NOTE 1, 2	X
SA1	ARM MOUNT TYPE III DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-3M-24-E-UH-WH-700-40K; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q200-D1-WH-HH-AB-FBC	LED 32,000 LUMENS, 533W	480	20'-0" STEEL POLE, NOTE 1, 2	X
SB	ARM MOUNT TYPE IV DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-4MB-24-E-UH-WH-700-40K; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q200-D1-WH-HH-AB-FBC	LED 34,000 LUMENS, 533W	480	20'-0" STEEL POLE, NOTE 1, 2	X
SC	ARM MOUNT TYPE V DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-5M-24-E-UH-WH-700-40K; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q200-P2-WH-HH-AB-FBC	LED 48,000 LUMENS, 533W	480	20'-0" STEEL POLE, NOTE 1, 2	X
SD	DUAL ARM MOUNT TYPE III DISTRIBUTION LED FIXTURES AND POLE	FIXTURE: (2)CREE ARE-EHO-3M-24-E-UH-WH-700-40K; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500W300-D2-WH-HH-AB-FBC	(2) LED 43,000 LUMENS 1066W	480	20'-0" STEEL POLE, NOTE 1, 2	X
SF	ARM MOUNT TYPE II DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-2MB-24-E-UH-WH-700-40K; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q200-D1-WH-HH-AB-FBC	LED 34,000 LUMENS, 533W	480	20'-0" STEEL POLE, NOTE 1, 2	X

NOTES

1. POLES, FIXTURES, AND LAMPS WILL BE FURNISHED BY OWNER AND DELIVERED TO SITE. CONTRACTOR SHALL RECEIVE, UNLOAD, STORE, PROTECT, AND INSTALL. UNO = UNLESS NOTED OTHERWISE

2. LUMINAIRE BACKLIGHT, UPLIGHT, GLARE (BUG) RATINGS AVAILABLE FROM MANUFACTURER. LUMENS ARE INITIAL DELIVERED LUMENS.

A1 SITE ELECTRICAL PLAN
SCALE: 1" = 60'

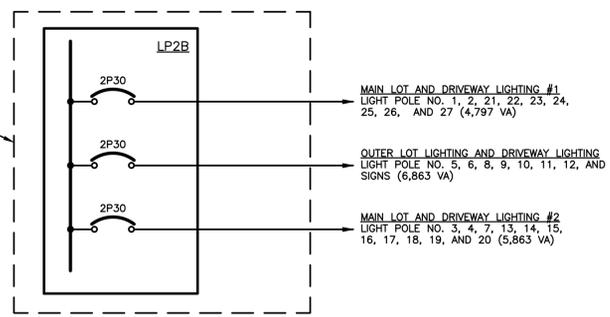
A4 LUMINAIRE LEGEND
NTS



PANELBOARD AND CONTROLS PROVIDED IN ACCORDANCE WITH BUILDING DRAWINGS; EXTEND SITE LIGHTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS TO PANEL LP2B LOCATION

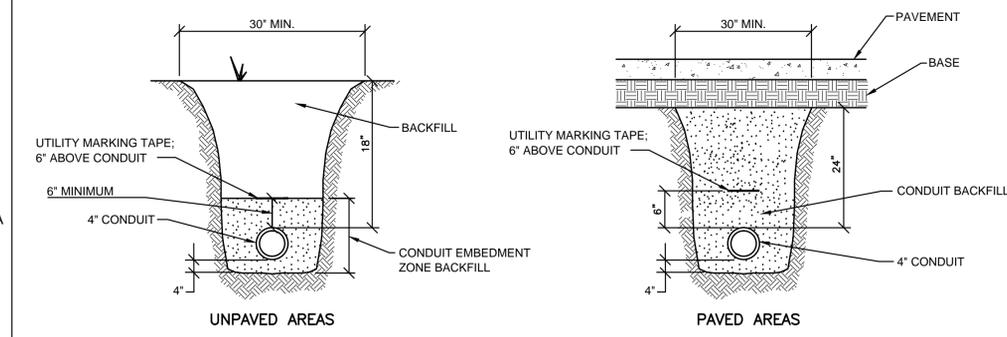
NOTE: PANEL LP2B CIRCUITS 3/5, 9/11, 2/4, 6/8, AND 10/12 ARE AVAILABLE FOR SITE LIGHTING USE. MAXIMUM LOAD ON EACH 480 VOLT, 30 AMPERE, SINGLE PHASE CIRCUIT IS 11,520 VA.

VERIFY WHICH, IF ANY, OUTER LOT POLES ARE TO BE CONTROLLED INDEPENDENTLY FROM MAIN LOT LIGHTS. REFER TO BUILDING DRAWINGS, FOR SITE LIGHTING CONTROL DETAIL.



B1 LUMINAIRE WIRING DIAGRAM

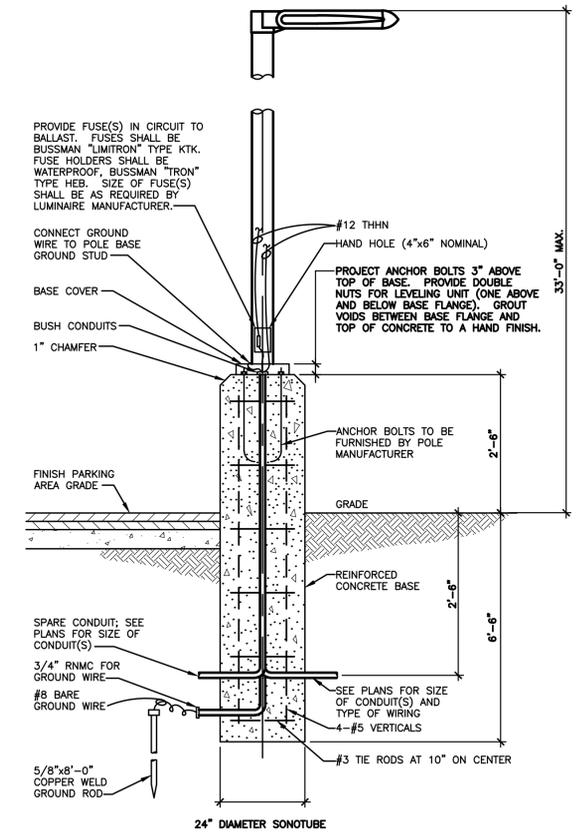
NTS



FOR MAIN POWER SERVICE AND COMMUNICATIONS LINES

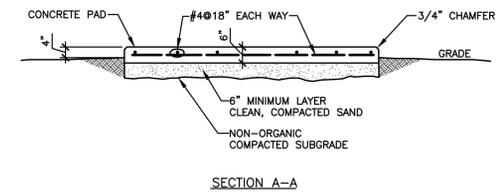
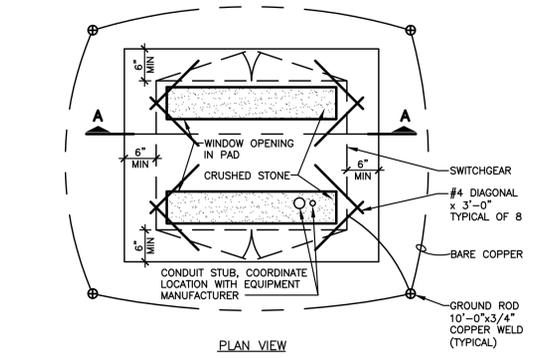
A1 UTILITY TRENCH

NTS



A3 RAISED CONCRETE LIGHTING BASE DETAIL

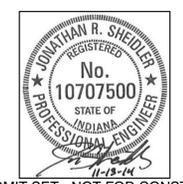
NTS



NOTE: FOLLOW MANUFACTURERS DRAWINGS FOR SIZE AND ANCHOR BOLT SETTINGS

A4 PRIMARY SWITCH PAD DETAIL

NTS



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STORE FRK CONSTRUCTION PLANS

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REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

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SITE ELECTRICAL DETAILS

DRAWN BY: KAC	ISSUE: 1	ISSUE DATE: 11/13/14	SHEET NO.: C802
CHECKED BY: BJH	MEIJEER PROJECT NO.: 74485	WOOLPERT PROJECT NO.: 74485	

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