Revised per appeal case number 15-0231

**LOCATION MAP** 

**CODE ANALYSIS** 

SECTION 303.1 USE GROUP - A-3 (UNCONCENTRATED) CONSTRUCTION TYPE - VA

ALLOWABLE BUILDING HEIGHTS &.
NUMBER OF STORIES ALLOWED = ?
NUMBER OF STORIES PROVIDED =

BEFORE YOU DIG

Call... 800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

REF. NO: A-930-002-126

ALLOWABLE AREA PER STORY = 11,500 SF AREA PROVIDED: STORY 1 = 204 SF STORY 2 = 1052 SF TOTAL SF = 1256 SF

OCCUPANCY LOAD - SECTION 1004.1 LEVEL 1 = 204 SF/15 NET = 13 OCC. LEVEL 5 = 1052 SF/15 NET = 70 OCC. TOTAL = 83 OCC.

SECTION 903.2.1.3 - AUTOMATIC SPRINKLER SYSTEMS REQUIREMENT WAIVED PER VARIANCE

TABLE 601 - FIRE-RESISTANCE RATING REQ.
FIRE RATING REQUIRED = 1 HOUR
REQUIREMENT WAIVED PER VARIANCE

SECTION 1009.1 - STAIRWAYS
MINIMUM STAIRWAY WIDTH = 44"
WIDTH PROVIDED = 44"

ALLOWABLE BUILDING HEIGHT BUILDING HEIGHT PROVIDED =

= 50 FEET : 50 FEET

SECTION 1005 MINIMUM STAI = 25"; WIDTH P

5.1.1 - EGRESS SIZING IR WIDTH = 0.3 x 83 OCCUPANTS PROVIDED = 44"

THE PROJECT CONSISTS OF INSTALLATION OF A NEW OBSERVATION TOWER AND ADA ACCESS RAMP AT THE LAKE METROPARKS LAKE ER BLUFFS SITE. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIALS, PERMITS, AND EQUIPMENT FOR A COMPLETE INSTALLATION.

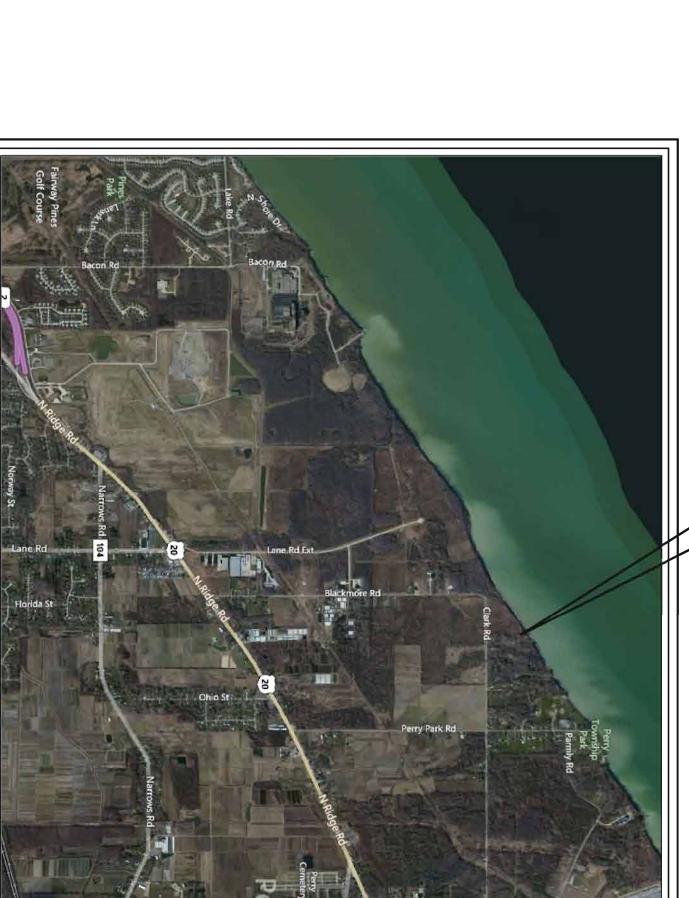
PROJECT DESCRIPTION

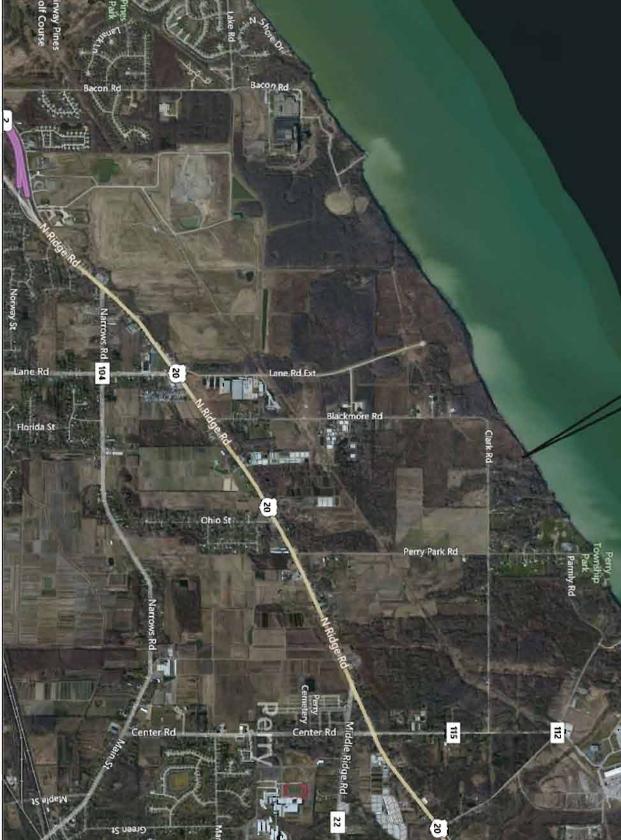
# 

METROPARKS BID NO. 2015-055

ECEMBER 29, 2015

# SHEET INDEX





## OWNER

LAKE METROPARKS 11211 SPEAR ROAD, CONCORD TOWNSHIP, OHIO PH: 440.639.7275 FAX: 440.639.9126

## OFFICI ALS

LAKE COUNTY PROBATE JUDGE: MARK J. BARTOLOTTA

LAKE METROPARKS BOARD OF PARK COMMISSIONERS: GRETCHEN SKOK DISANTO JOHN C. REDMOND FRANK J. POLIVKA

EXECUTIVE DIRECTOR: PAUL PALAGYI

# OWNER R REPRESENTATIVE

LAWRENCE B. ELSWICK, PLA
LANDSCAPE ARCHITECT
PH: 440.639.7275 FAX: 440.639.9126
LELSWICK@LAKEMETROPARKS.COM
WWW.LAKEMETROPARKS.COM



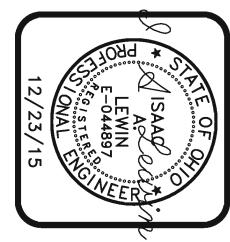
NUMBER OF EXITS - TABLE 1021.2
# OF EXITS REQUIRED = 2
# OF EXITS PROVIDED = 1 PER VARIANCE





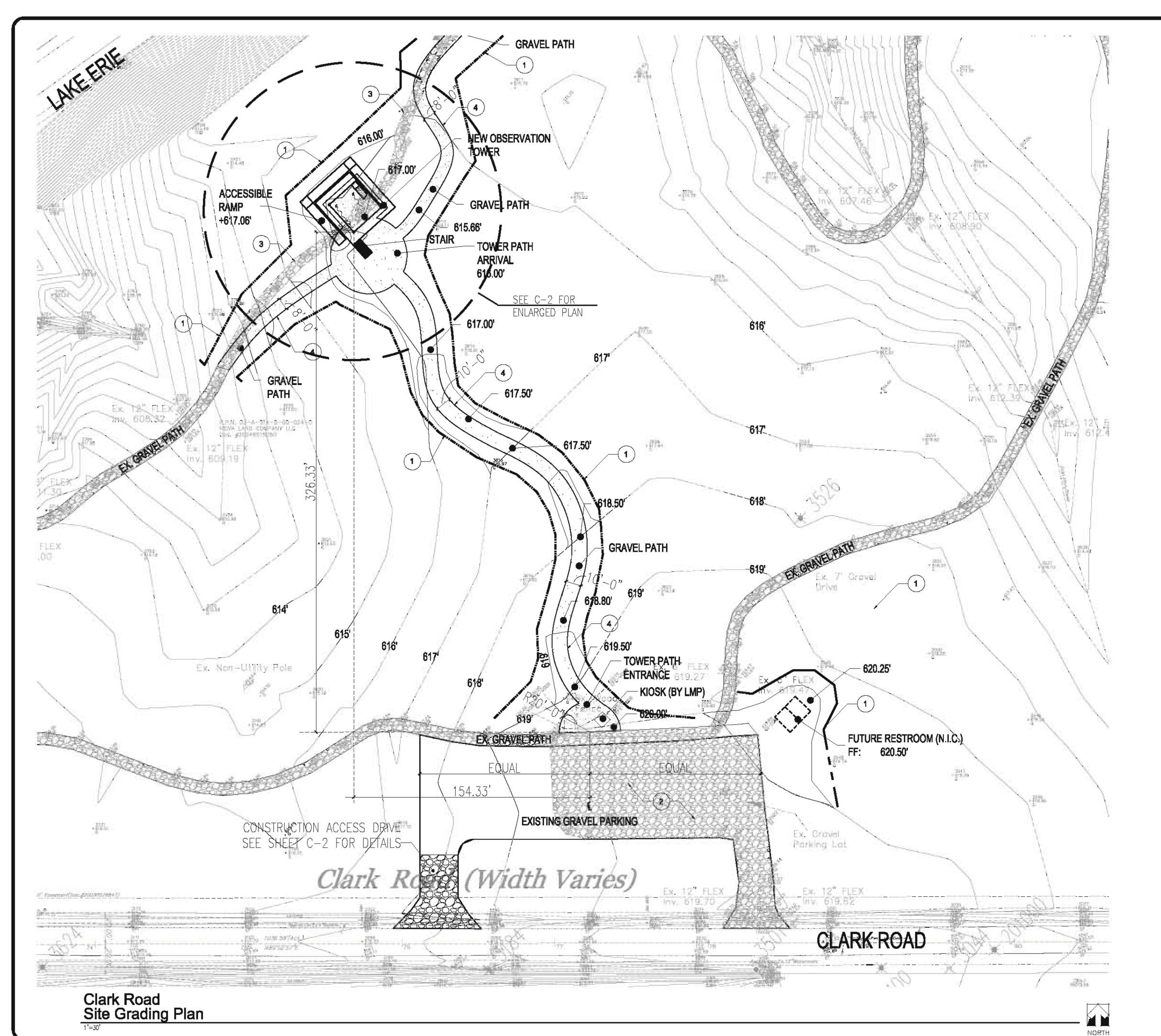


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		SHEET	14015	JOB NO.	SCALE	8-21-2015	DATE	B.D.T.	CHECKED	J.S.S.	DRAWN
1	0								•		





			$\triangleright$		
			BID/PERMIT 12/29/15	BID/PERMIT 8/21/15	REVISIONS
			BDT	врт	ВҮ



## **General Notes**

- 1. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS APPROXIMATE. THE EXACT LOCATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING UTILITIES IN THE PROJECT AREA SHALL BE PROTECTED DURING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL PROVIDE LAYOUT AND STAKING, PER ODOT ITEM 623, STAKING COST TO BE INCLUDED IN THE CONTRACT UNIT PRICES
- 3. ALL CONSTRUCTION SHALL MEET THE CURRENT LOCAL, STATE AND FEDERAL RULES AND REGULATION.
- ALL NEW BACKFILL SHALL CONSIST OF APPROVED ON—SITE SILTY CLAYS, CLAYS, SHALE, OR APPROVED BORROW MATERIAL, AS PER GEOTECHNICAL REPORT.
- INFORMATION ON DETAIL DRAWINGS TAKES PRIORITY OVER ALL GENERAL DRAWINGS AND SCHEDULES, CONTRACTOR SHALL NOTIFY ENGINEER OF CONFLICTS TO BE RESOLVED QUICKLY AND PRIOR TO WORK BEING PERFORMED. THE CONTRACTOR IS RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR RESOLUTION.
- 6. ANY BUILDING DIMENSIONS SHOWN ON THESE PLANS ARE FOR INFORMATION PURPOSES ONLY. ALL DIMENSIONS FOR THE PROPOSED BUILDING SHALL BE PER THE STRUCTURAL ENGINEER'S PLANS.

## **Demolition Notes**

- 1. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH TOPSOIL, FERTILIZER, SEED AND MULCH, AS PER ODOT SECTION 659
- EXCAVATED MATERIALS WHICH ARE UNSUITABLE FOR BACKFILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND DISPOSED OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
- 3. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PARKING PAVEMENTS, INCLUDING PAVEMENT, DITCHING AND CULVERTS, CAUSED BY HIS CONSTRUCTION ACTIVITY. RESTORATION OF THE DAMAGED PAVEMENT FACILITIES SHALL BE TO THE SATISFACTION OF THE ARCHITECT AND LAKE METRO PARKS.
- 4. REMOVE ALL STONES AND ORGANIC MATERIALS 1" OR GREATER IN ANY DIMENSION FROM ALL DISTURBED AREAS PRIOR TO SEEDING AND MULCHING.

## Coded Notes



- 1. PROVIDE SILT FENCE AS INDICATED ON SHEET C-2.
- 2. EXISTING GRAVEL PARKING TO REMAIN.
- 3. REMOVE PORTION OF EXISTING GRAVEL PATH AND RESTORE GRASS FIELD.
- NEW COMPACTED GRAVEL PATH. PROVIDE 8" DEEP ODOT 304 OVER NON-WOVEN GEOTEXTILE FABRIC ON COMPACTED SUBGRADE. GEOTEXTILE FABRIC AS MANUFACTURED BY US FABRICS INC. MODEL; US 205 NW OR EQUAL.





TWO WORKING DAYS

REFORE YOU DIG

BEFORE YOU DIG

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OHIO UTILITIES PROTECTION SERVICE

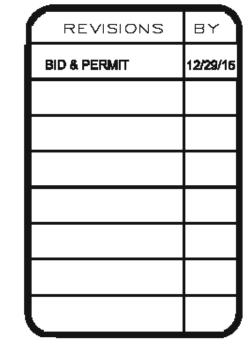
NON-MEMBERS

MUST BE CALLED DIRECTLY

REF. NO: A-930-002-126







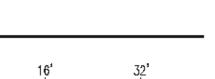




PROPOSED OBSERVATION TOWER
LAKE METROPARKS LAKE ERIE BLUFF
2901 CLARK ROAD
PERRY TOWNSHIP, OH 44081

DRAWN
H.J.O.
CHECKED
B.D.T.
DATE
5-11-2015
SCALE
AS SHOWN
JOB NO.
14016





PLAN VIEW

PROFILE

PAVED SURFACES.

10 ft. Minimum and Not Less Than Width of Ingress/Egress

NORTH

Right of Way Diversion

STONE SIZE-TWO-INCH STONE SHALL BE USED, OR RECYCLED CONCRETE

2. LENGTH-THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO

RESIDENCE LOT WHERE A 30-FT, MINIMUM LENGTH APPLES).

THICKNESS-THE STONE LAYER SHALL BE AT LEAST 6 IN. THICK.

THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.

WATER BAR-A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE

STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FT. (EXCEPT ON SINGLE

WIDTH-THE ENTRANCE SHALL BE AT LEAST 10 FT. WIDE, BUT NOT LESS THAN

BEDDING-A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO

CULVERT-A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF

NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM

CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM

FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO

MAINTENANCE-TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS

PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY

CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD

FROM VEHICLES AND PREVENT OFF-SITE TRACKING, VEHICLES THAT ENTER

AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO

SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE

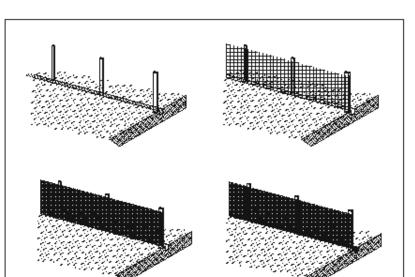
PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST

18" or Sufficient to Divert Runoff

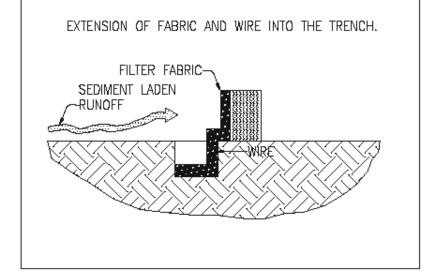
BEING DIRECTED OUT ONTO PAVED SURFACES.

ACCOMPLISHED BY SCRAPING OR SWEEPING.

Road or Other Existing Paved Surface.



POSTED SILT FENCE CONSTRUCTION



SECTION THROUGH TRENCH

## SILT FENCE PLACEMENT NOTES

- SHEET (OVERLAND) FLOW APPLICATIONS ONLY THE HEIGHT OF THE SILT FENCE SHALL NOT BE LESS THAN
- THIRTY—SIX (36) INCHES. BURLAP OR STANDARD STRENGTH FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL TO AVOID JOINTS. A SIX (6) INCH LAP IS REQUIRED AT A POST FOR ALL NECESSARY JOINTS.
- STAKES FOR SILT FENCES SHALL BE TWO INCH BY TWO INCH (2" X 2") WOOD OR 1.33 LBS./LIN. FT. STEEL WITH A MINIMUM LENGTH OF FIVE (5) FEET.
- MAXIMUM POST SPACING SHALL BE TEN (10) FEET WHEN WIRE SUPPORT FENCE IS USED AND A MAXIMUM OF SIX (6) FEET WHEN NO WIRE SUPPORT IS USED. CONSTRUCT A FOUR INCH BY FOUR INCH (4" X 4") TRENCH
- ALONG THE LINE OF THE STAKES AND UP SLOPE FROM THE BARRIER. WHEN STANDARD STRENGTH FABRIC IS USED, WITH STANDARD POST SPACING, A WIRE SUPPORT FENCE SHALL BE USED AND MUST BE EXTENDED INTO THE TRENCH A MINIMUM OF TWO (2)
- INCHES. WHEN EXTRA STRENGTH FABRIC IS USED IN CONJUNCTION WITH CLOSER POST SPACING THE FABRIC CAN BE STAPLED DIRECTLY TO THE POSTS WITH EIGHT (8) INCHES OF FABRIC EXTENDING
- INTO THE TRENCH. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER MATERIAL.

## II. MAINTENANCE

SILT FENCE PLACEMENT

- SILT FENCES SHALL BE INSPECTED AFTER EACH RAIN EVENT. SEDIMENT REMOVAL SHALL OCCUR WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE SILT FENCE.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

## CONSTRUCTION PROTECTION

## PROPOSED LOCATION OF SILT FENCE.

**Coded Notes** 



- NEW COMPACTED GRAVEL PATH, PROVIDE AN 8" DEEP ODOT 304 OVER NON-WOVEN GEOTEXTILE FABRIC ON COMPACTED SUBGRADE. GEOTEXTILE FABRIC AS MANUFACTURED BY US FABRICS INC. MODEL US 205 NW OR EQUAL.
- COMPACTED AREA UNDER STUCTURAL PLATFORM AND ACCESSIBLE RAMPS. PROVIDE A 6" ODOT 304 STONE OVER GEOTEXTILE FABRIC ON COMPACTED SUBGRADE. (US FABRIC INC. MODEL; US 205 NW OR EQUAL). GRADE THIS AREA TO DRAIN USING 2% SLOPE ACROSS AREA (MIN.)
- TOWER STRUCTURAL COLUMNS, REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL REINFORCEMENT SIZE AND DETAILS.

I. CONSTRUCTION SPECIFICATIONS

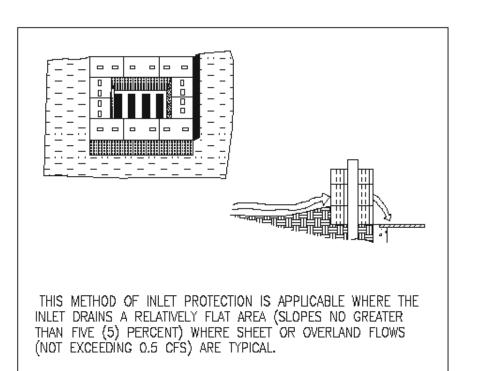
## STORM DRAIN (STRAW BALE) INLET PROTECTION NOTES:

- BALES SHALL BE EITHER WIRE BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER. THE INLET PROTECTION SHALL BE ENTRENCHED AND BACKFILLED. A
- TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR (4) INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN COMPLETELY THROUGH THE BALE AND PENETRATING THE SOIL BY A MINIMUM OF SIX (6) INCHES.
- LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT RUNOFF FROM ENTERING BETWEEN BALES.

## II. MAINTENANCE

- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO
- ONE-HALF THE DESIGN DEPTH OF THE TRAP. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

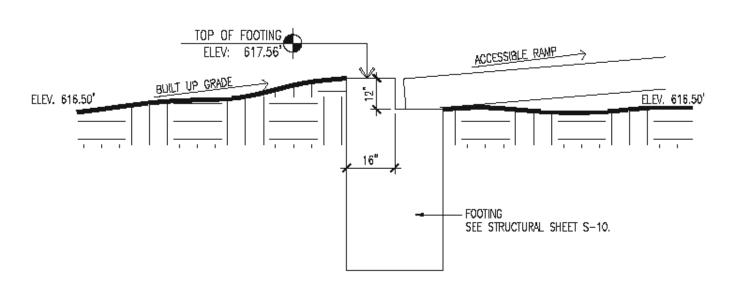
CONCRETE WASH-DUT
THE CONTRACTOR SHALL NOT ALLOW ANY CONCRETE WASH WATER FROM
THE CONTRACTOR SHALL NOT ALLOW ANY CONCRETE WASH WATER FROM
THE CONTRACTOR OF TOOLS OF CONSTRUCTION OPERATIONS READY-MIX TRUCKS, WASHING OF TOOLS OR CONSTRUCTION OPERATIONS TO FLOW INTO ANY STREETS, DITCHES, STORM DRAINS, WATER CONVEYANCES, OR OTHER AREAS WHERE WATER RUNOFF MAY FLOW INTO SUCH STRUCTURES. THE CONTRACTOR SHALL PRESENT A WRITTEN PLAN ON PROCEDURES TO DEAL WITH THE CONCRETE WASH WATER PRIOR TO EXCAVATION.

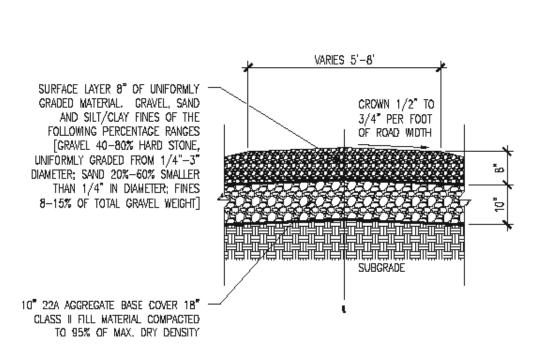


STRAW BALE DROP INLET SEDIMENT FILTER

## STORM DRAIN INLET PROTECTION

## Cut Section A-A





## **Gravel Path Detail** 1/2"=1'-0"





UNDERGROUND UTILITIES TWO WORKING DAYS BEFORE YOU DIG Call... 800-362-2764 (Toll Free) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY REF. NO: A-930-002-126





REVISIONS BID & PERMIT





N TOWER 'ATION

4408 OBSERVA OPARKS I R ROAD WNSHIP, O AKE 901 ( 日にて日

HJ.O. CHECKED B.D.T. 05-11-2015 SCALE AS SHOWN JOB NO. 14016

STRUCTURAL DESIGN CRITERIA

CODE:
BUILDING CONSTRUCTION TYPE:
OCCUPANCY USAGE:
GROUND SNOW LOAD:
SNOW IMPORTANCE FACTOR:
SNOW EXPOSURE FACTOR:
0.8 ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE. IE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS PRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE IE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL KOVIDE ALL MEASURES NECESSARY TO PROTECT THE RUCTURE DURING CONSTRUCTION, SUCH MEASURES SHALL CLUDE BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS IE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO IE SITE BY THE STRUCTURAL ENGINEER SHALL SHALL NOT CLUDE INSPECTION OF THE ABOVE ITEMS. ESS NOTED OTHERWISE, EXPANSION BOLTS IN CONCRETE LL BE 1/2" DIAMETER X 3 1/2" EMBEDMENT HILTI KWIK BOLTS II O 4627) OR APPROVED ALTERNATE WITH ALLOWABLE VALUES IAL TO OR EXCEEDING THOSE FOR HILTI, PER CURRENT ICBO EARCH REPORT. UNLESS NOTED OTHERWISE, ALL EPOXY 'HORS SHALL BE 1/2" DIAMETER WITH 4 1/4" EMBEDMENT HILTI SYSTEM (ICBO 40/16) OR APPROVED ALTERNATE WITH OWABLE VALUES EQUAL TO OR EXCEEDING THOSE FOR HILTI, CURRENT ICBO RESEARCH REPORT. INSTALL EXPANSION AND XY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. ORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE WINING CODES; OHIO BLDG CODE AND LATEST REVISIONS THEED TO HERE AS "THE CODE", AND ANY OTHER REGULATING CIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE DESIGN VELOCITY 115 MPH EXPOSURE D DESIGN PRESSURE 41 PSF (ASCE 7 Table 1-1) THE FOLLOWING SUBMITTALS, WHEN APPLICABLE, ARE REQUIRED FOR SUBMITTAL FOR STRUCTURAL REVIEW ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BE BY A REGISTERED STRUCTURAL ENGINEER, AND SUBMITTAL SHALL BE SEALED BY THE ENGINEER. SAID ENGINEER MUST BE REGISTERED WITH THE STATE THE PROJECT IS LOCATED WITHIN. ANY SUBMITTAL OF A DETAIL SHEET WITH ADDED INFORMATION SHALL BE ACCOMPANIED BY LOCATION PLAN IDENTIFYING THE MEMBERS INVOLVED AND CLOUDING AROUND ADDED INFORMATION HE CONTRACT DOCUMENTS MAY NOT BE USED BY THE DETAILER 3 USE IN ERECTION OR DETAIL DRAWINGS WITH OUT PRIOR RITTEN PERMISSION FROM THE STRUCTURAL ENGINEER. E STRUCTURAL SUBMITTALS WILL BE RETURNED FOR SUBMITTAL IF A CURSORY REVIEW SHOWS MAJOR ERRORS IICH SHOULD HAVE BEEN FOUND BY THE GENERAL NITRACTOR'S CHECKING. MITTALS ARE TO BE RECEIVED BY THE STRUCTURAL ENGINEER NIMUM OF 10 WORKING DAYS PRIOR TO CONSTRUCTION EDULING. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ISTRUCTION DELAYS DUE TO INADEQUATE SCHEDULING OF MITTAL REVIEW. SUBMITTALS TO BE SUBMITTED TO ARCHITECT OR ENGINEERS REVIEW. G.C. TO NOTIFY BUILDING DEPT. OF SPECIAL INSPECTORS NAME AND CONTACT INFORMATION. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE LOCAL BUILDING DEPARTMENT TO PERFORM THE TYPES OF INSPECTION SPECIFIED. Soil Bearing Capacity
Soil Compaction, at ± 2% optimum I Concrete Slump (1 per 50 CY or fraction), Percentage Entrained Air for exterior concrete Verify reinforcing sizes and placement PROD. DATA DRAWINGS CAL ASTM C-31 and C-39 4500 PSI 116.5K ALLOWABLE CAPACITY FOR DRILLED SHAFTS ON STIFF CLAY SOILS. CONTRACTOR TO SUBMIT WRITTEN VERIFICATION BY GEOTECHNICAL ENGINEER OF AUGER CAST PILE ELEVATION.
PROVIDE CASING FOR DRILLED SHAFTS AS NEEDED BY SOIL CONDITIONS OR DIRECTED BY GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE, IF REQUIRED ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. CONTRACTOR TO NOTIFY THE INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. INSPECTOR TO SUBMIT A LETTER OF COMPLIANCE. UNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL COUNTERED AT THESE EDFITHS NOT BE APPROVED BY THE SPECTOR OR SOILS ENGINEER, FOUNDATION ELEVATIONS WILL ALTERED BY CHANGE ORDER. ACE FILLS TO BE COMPACTED IN MAX 8" LOOSE LIFTS. MMPACT TO MINIMUM 98% OF MAXIMUM DENSITY AT 4:2% TIMUM MOISTURE WHEN TESTED IN ACCORDANCE WITH ASTM L ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE TH NEW CONSTRUCTION SHALL BE REMOVED. NEW FOOTINGS ALL EXTEND INTO UNDISTURBED SOILS. REQUIRED OR DIRECTED BY THE GEOTECHNICAL SER COMPACT ALL AREAS WITH IN 5'-0" OUTSIDE OF COTPONINT TO DENSITY SPECIFIED IN GEOTECHNICAL DOUBLE ANGLES SHALL BE SIZED FOR ALL APPLICABLE SPECIFICATIONS IN THE LATEST AISC STEEL CONSTRUCTION MANUAL INCLUDING BUT NOT LIMITED TO PRYING ACTION. MINIMUM 10 KIPS. BOLTS SHALL BE DESIGNED USING SLIP-CRITICAL CONNECTION SERVICEABILITY LIMIT VALUES.

ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (U.N.O.). HOLES IN STEEL SHALL BE 1/16" LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED. BEAM END CONDITIONS SHALL BE DOUBLE ANGLES CAPABLE OF SUPPORTING A MINIMUM OF 50% OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM FOR THE GIVEN SPAN. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS LATEST EDITION (EXCLUDING SECTION A7). CONCRETE CAST AGAINST AND PERMANENTLY 3" EXPOSED TO EARTH: ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (U.N.O.):

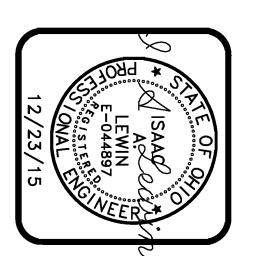
WE SHAPES:
GR50)
BASE PLATES, CONNECTION
PLATES, ANGLES, CHANNELS,
AND MISCELLANEOUS STEEL:
ASTM A-36
PIPE:
A-300, GRADE B
TUBE SECTIONS:
A-325
NON-STRUCTURAL BOLTS:
A-307 CONCRETE EXPOSED TO EARTH OR WEATHER:
NO. 6 THROUGH NO. 18 BAR 1 1/2"
NO. 5 BAR, W31 OR D31 WIRE AND SMALLER BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS (MAX 2" HIGH) OR METAL CHAIRS, PRIOR TO PLACING CONCRETE. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE. L WELDS SHALL BE IN CONFORMITY WITH THE PROJECT YECHICATIONS AND THE CODE FOR WELDING IN BUILDING WISTRUCTION (AWS D1.1 LATEST REVISION) OF THE MERICAN WELDING SOCIETY. SHEAR PLATES, WEB STIFFENERS, AND DOUBLE ANGLES LIL BE MINIMUM 3/8" THICK. E STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP NWINGS TO THE ENGINEER OF ALL STEEL FOR NUCTURAL ENGINEER'S REVIEW AND APPROVAL BEFORE RICATION. BAR SPACINGS GIVEN ARE MAXIMUM ON CENTER WHETHER ATED AS "O.C." OR NOT. ALL REBAR IS CONTINUOUS HETHER STATED AS "CONT." OR NOT. INFORCING STEEL SHALL BE DETAILED IN ACCORDANCE IN THE "A.C.I. MANUAL OF STANDARD PRACTICE FOR TAILING REINFORCED CONCRETE STRUCTURES", LATEST TION. IS SHALL BE CLEAN OF RUST, GREASE, OR OTHER IERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR IDS SHALL BE MADE COLD. CONTRACTOR AT HIS OPTION MAY INCREASE SLUMP WITH USE OF HRWR ADMIXTURE. LIMIT SLUMP INCREASE TO 2" GREATER THAN THAT ALLOWED WITHOUT HRWRA.
PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II.
AGGREGATE FOR CONCRETE SHALL CONFORM TO ALL REQUIREMENTS.
AND TESTS OF SATM C-23 AND PROJECT SPECIFICATIONS.
CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ALL REQUIREMENTS.
AND TROUGHEN TO 1/4" AMPLITUDE ALL CONFORM TO ALL REQUIREMENTS.
AND TROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES.
AND PROJECT SPECIFICATIONS.
CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES.
AND PROJECT SPECIFICATIONS.
CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES.
AGAINST WHICH HEW CONCRETE IS TO BE PLACED.
ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE
ROSTERS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING
CONCRETE.
ROSTERS PRAYMINGS FOR PLUMBING AND ELECTRICAL OPENINGS IN
CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH
MAY CONFLICT. CORING CONCRETE IS NOT PERMITTED. NOTHY THE
ENGINEER IN ADDVANCE OF CONCITIONS NOT SHOWN ON THE DRAWINGS.
BEEN THESS DRAWMINGS FOR ADDITIONAL RESTRICTIONS ON THE PRAYMINGS.
FINESS LARGER THAN 1-1/2" DAMBETER SHALL NOT BE EMBEDDED IN
STRUCTURAL CONCRETE ESCEPT WHERE SPECIFICALLY APPROYED BY
ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING
BARS, SPACE EMBEDDED PIPES AT A MINIMUM NOT BURNAY. DEICING
CONCRETE BY SOORED TO THE WEATHER, REEZEZ-THAY, DEICING
CONCRETE BY SOORED TO THE WEATHER, REEZEZ-THAY, DEICING
CONCRETE BY SOORED TO THE WEATHER, REEZEZ-THAY, DEICING
CONCRETE BY WET CURING OR LIQUID SPRAY CONFORMING TO
ASTM C-299. CONTRACTORS SHALL BE USED FOR ALL
ADMIXTURES.
CONCRETE BY WET CURING OR LIQUID SPRAY CONFORMING TO
ASTM C-299. CONTRACTOR TO VERIFY CURING AGENT IS COMPATIBLE
WITH ANY FLOOR ADHESINES SPECIFIED WITHIN THE CONTRACT
OCCUMENTS.

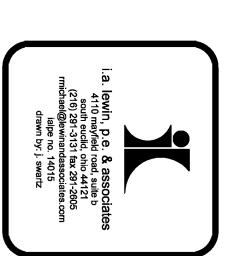
ELYASH CONTRACT CONTRACTOR SHALL BE USED CONTRACTOR SHALL BE
LIMITED TO 20% OF TOTAL CEMENTITIOUS MATERIAL OR 25% OF
PORTLAND CONCRETE IS CONFORMED SPECIFIED WITH ACI 305.
DURING COLD WEATHER PLACE CONCRETE IN A SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES SLUMP LISTED IS MAX);

OCATION IN STRUCTURE STRENGTH WIC RATIO SLUMP DENSITY OUNDATIONS AND 4500 PSI 0.45 4" 145 PCF DRILLED SHAFTS L LUMBER TO BE PRE

DATE 8-21-2015 SCALE  JOB NO. 14015 SHEET	CHECKED B.D.T.	DRAWN J.S.S.	
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PROPOSED OBSERVATION TOWER
LAKE METROPARKS LAKE ERIE BLUFFS
2901 CLARK RD
PERRY TOWNSHIP, OH 44081





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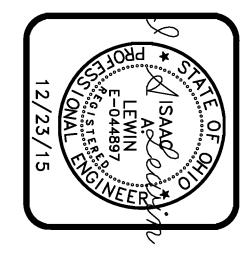
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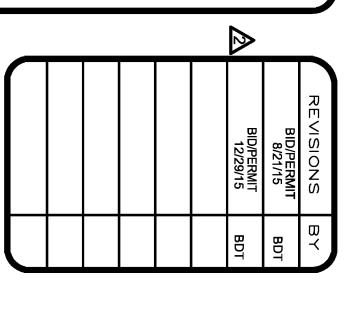
\\ ALA-SBS\Data\14-Projects\Lake Metropar	rkall FB Observation Tower\14015	1 REDESIGN\Struct\S-1 dua	12/23/2015 10:31:40 AM   emin & Assoc
TWILL SEE THE THE TOTAL THE	NO WELD ODDOL FACIOIT TOWOL (1-0-15).	TITED ESTOT OF TOOL OF T.GWG,	12/23/2015 10:51:40 / 14, ECWIII 4 / 15500

9 (1704.10 OBC) Page 5 of 6		6 (1704.7 OBC)  Pile Foundation (1704.8 OBC)	4 (1704.5 OBC)  Wood Construction 5 (1704.6 OBC)		DATE Conditions/Limitatio	Pursuant to section 1704.1.2 Ohio Building Code, Special inspectors shall keep records of inspections and furnish inspection report to the building officials, and to the registered design professional in responsible charge. Reports shall indicate that work inspected was done in conformance with the approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for corrections. If discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the registered design professional in responsible charge prior to the completion of that phase of the work. This report requires the inspectors to note the date of when the respective work received final inspection and approval, any special conditions or limitations of the approval, and the inspector's name.  FINAL APPROVAL OF WORK - CONDITIONS/LIMITATIONS	Application No.: Project name: Project location: PERRY TOWNSHIP, OH 44081  Final Report for Special Inspections  Proposed Inspections  PROPOSED OBSERVATION TOWER - LAKE METROPARKS LAKE ERIE BLUFFS  PROPOSED OBSERVATION TOWER - LAKE METROPARKS LAKE ERIE BLUFFS	Application No.:  Project name: Project charies: Project
Page 6 of 6	Signature: Date:	Name of Owner: LAKE METROPARKS  Name of Company: LAKE METROPARKS	Property Owner:	Signature:	legistered Design  Designer: ISA  jistration No.: E-0	Smoke Control System  (1704.14 OBC)  The project registered design professional in responsible charge also acknowledges that he or she is responsible for reviewing and approving the special inspection reports submitted by the special inspectors at the required inspection periods. Any discrepancies in special inspection reports shall be brought to the attention of the building official. A final special inspection report documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the building official.	10 (1704.12 OBC) 11 Sprayed Fire-Resistant (1704.10 OBC) 12 Special Cases (1704.13 OBC)	Concrete curing temperature and techniques  Pre-stressed concrete  A Mesonry Construction (1704.5 OBC)  Nest productions  Grouting  Pre-stressing tendons and achoranges  Cord weather protections  Swood Structural panels  Framing details  X  X  X  X  Declar Cases (1704.12 OBC)  File Foundation (1704.9 OBC)  File Foundation (1704.9 OBC)  File Foundation (1704.13 OBC)  File Founda
								TO BE DETERMINED   TO BE DETER

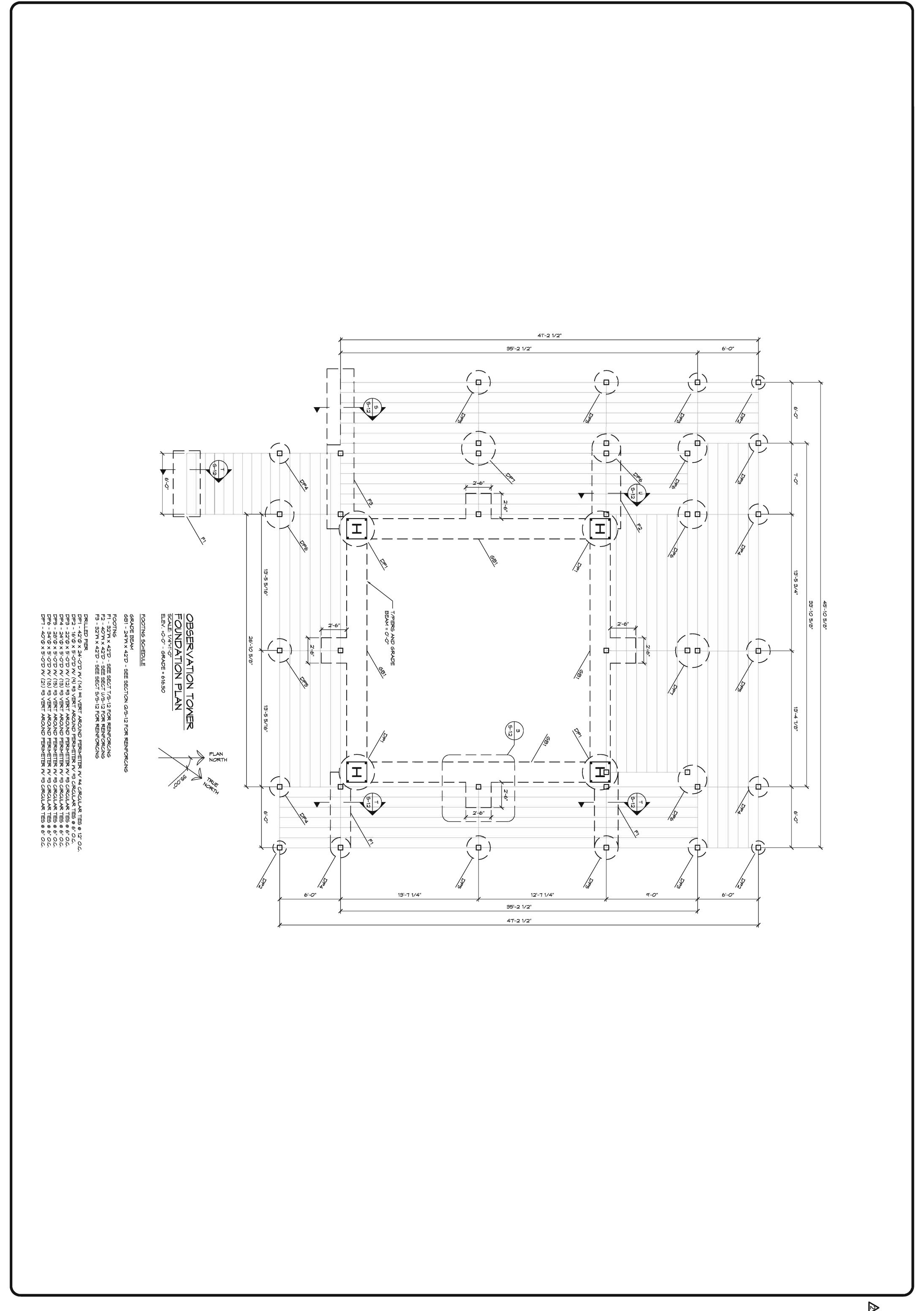
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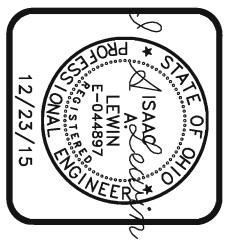


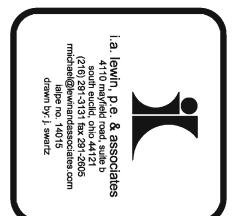


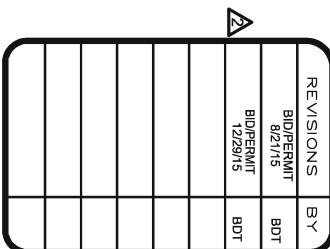
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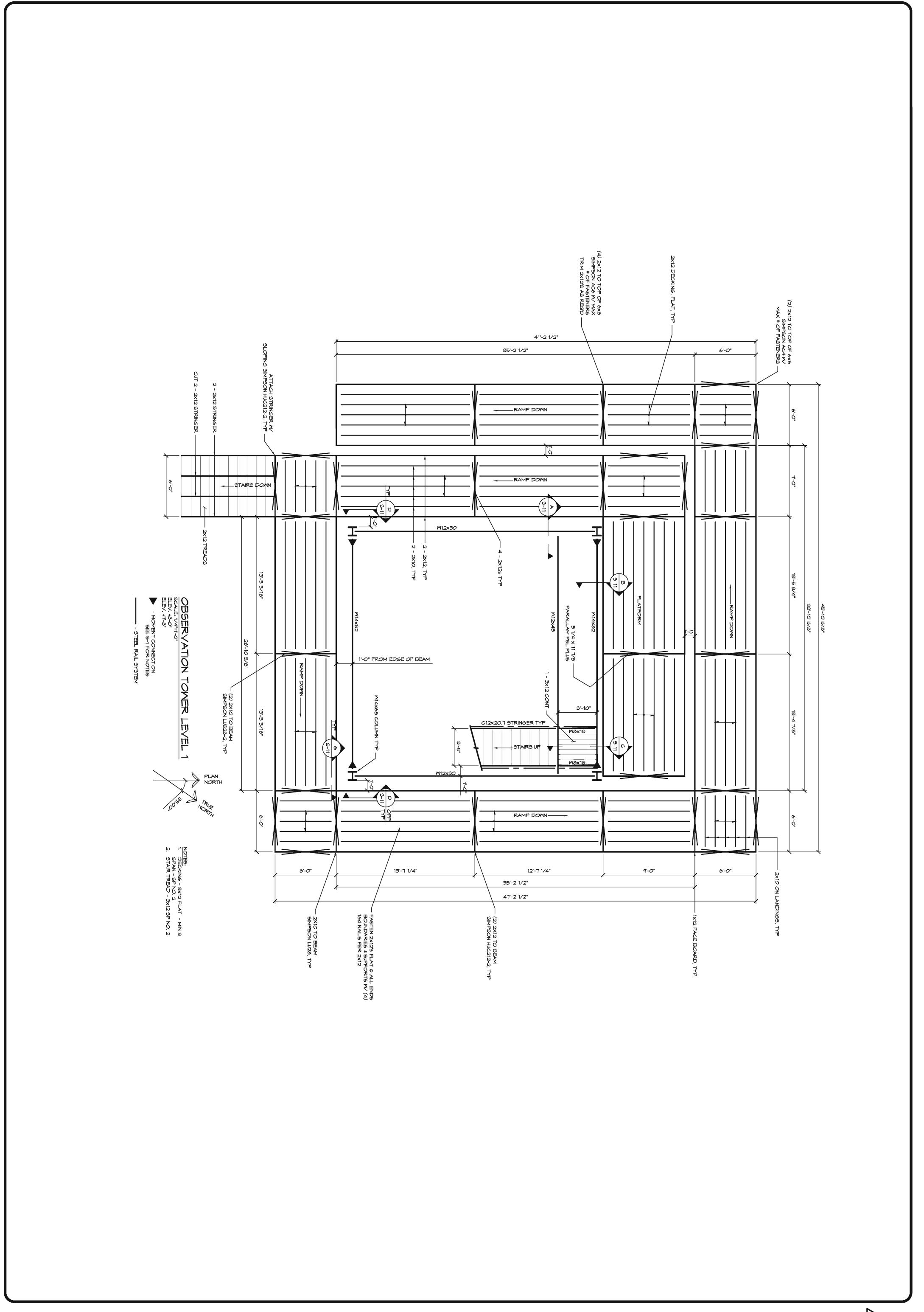


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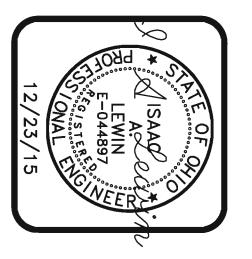






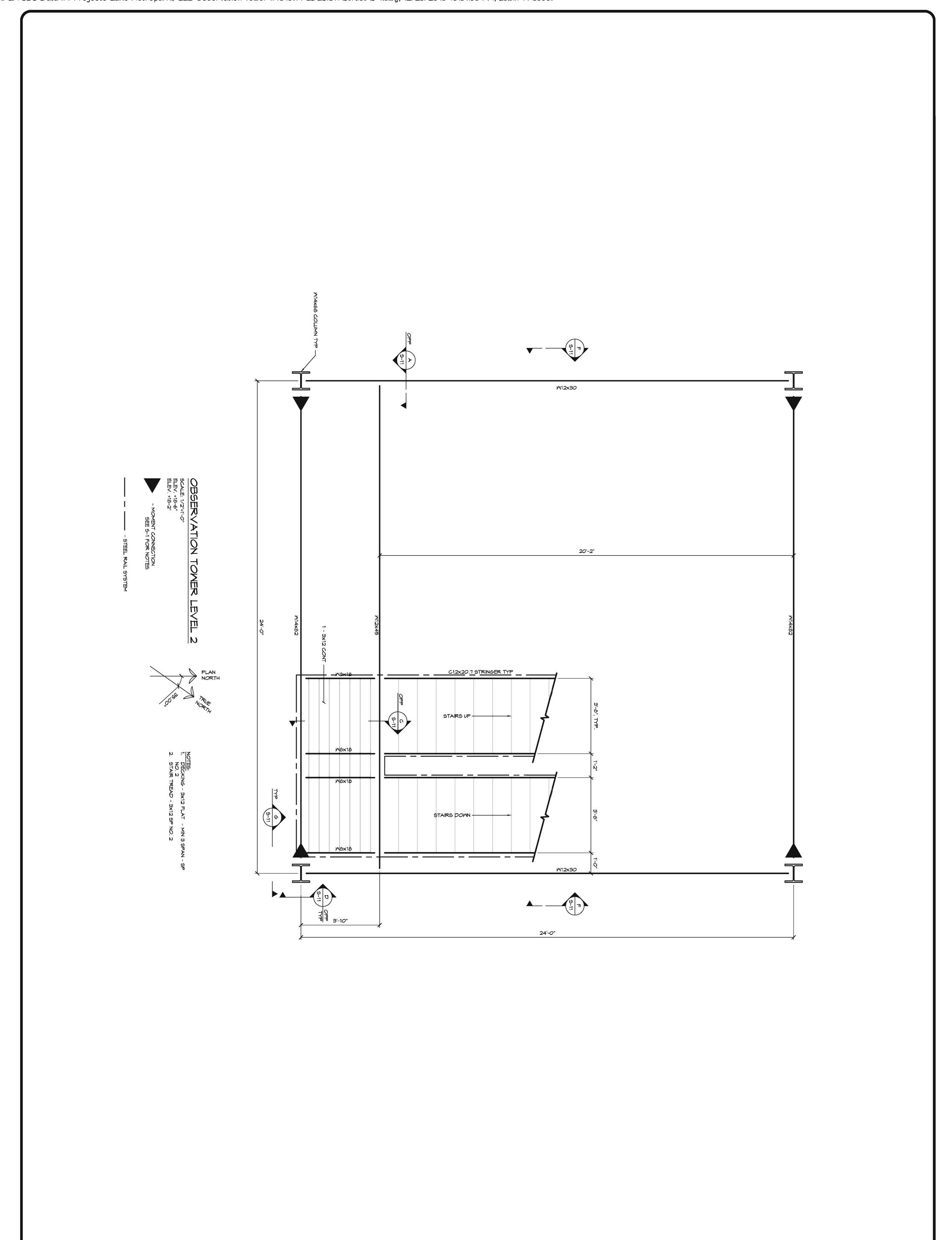


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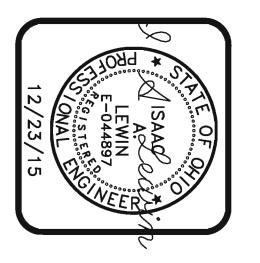




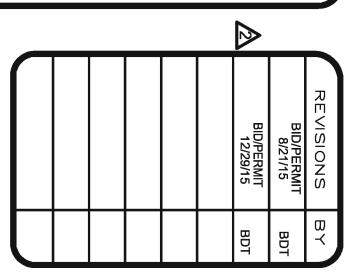
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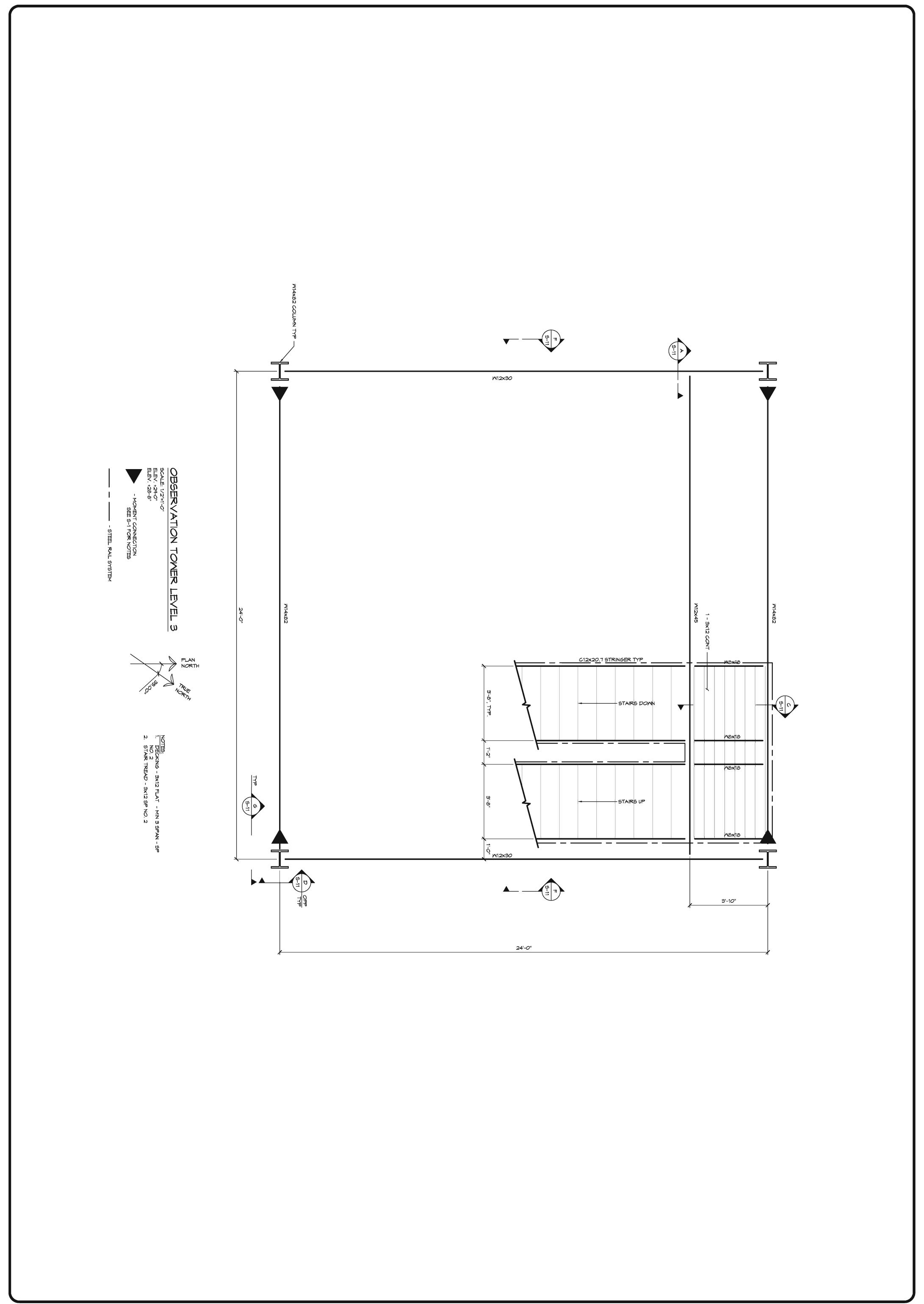


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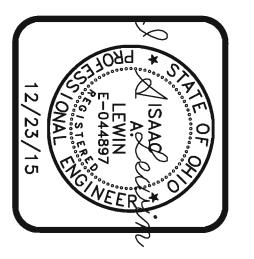




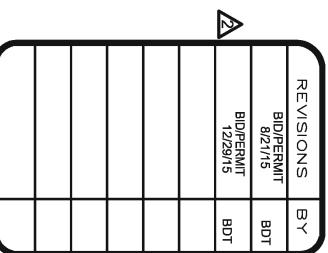


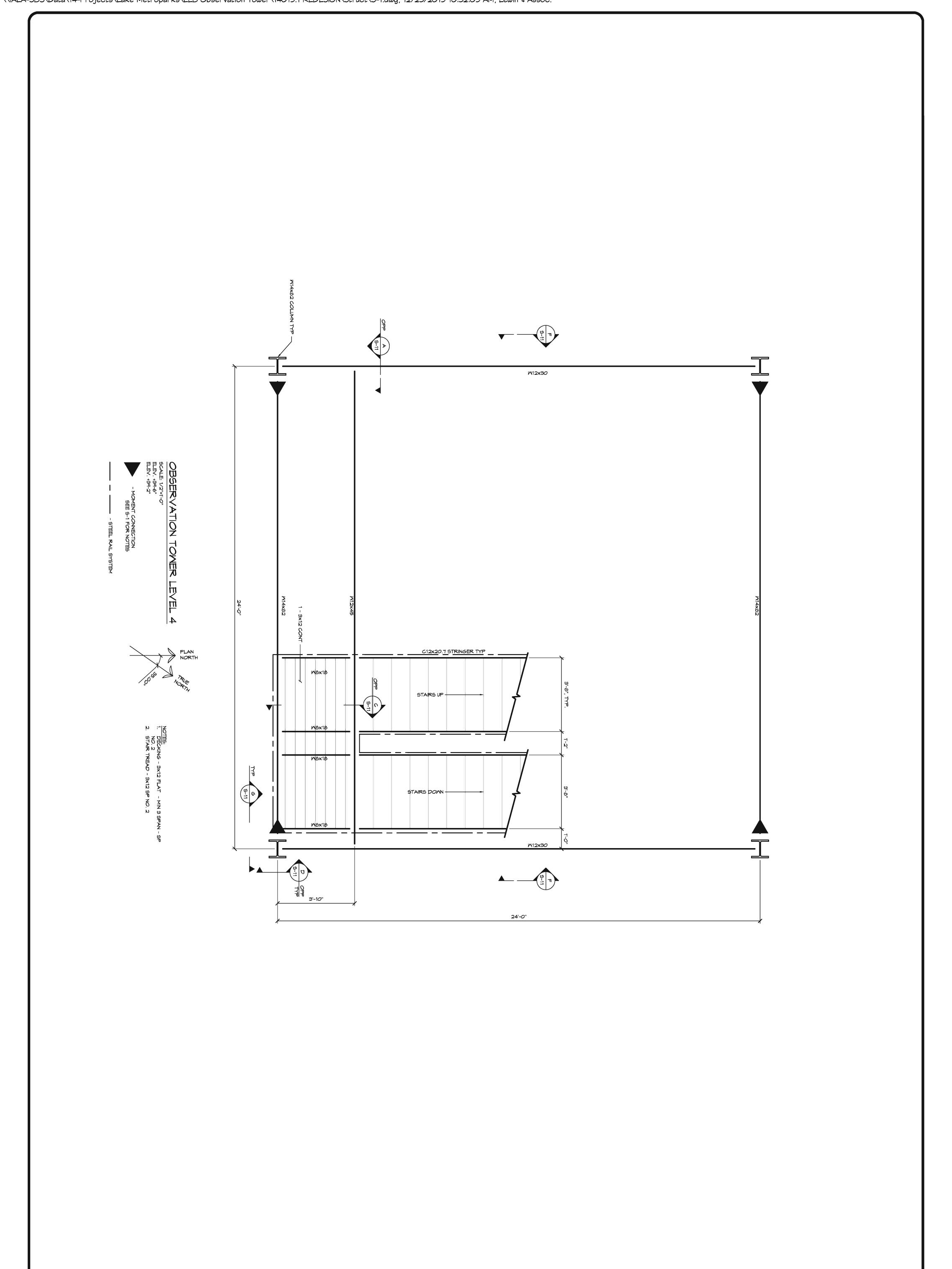


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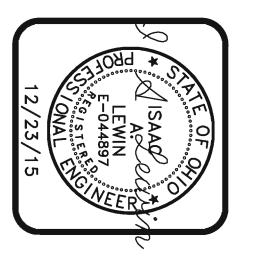




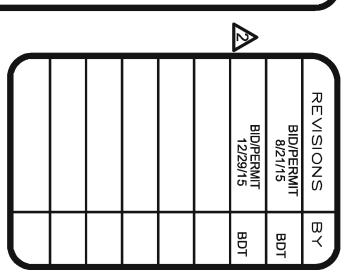


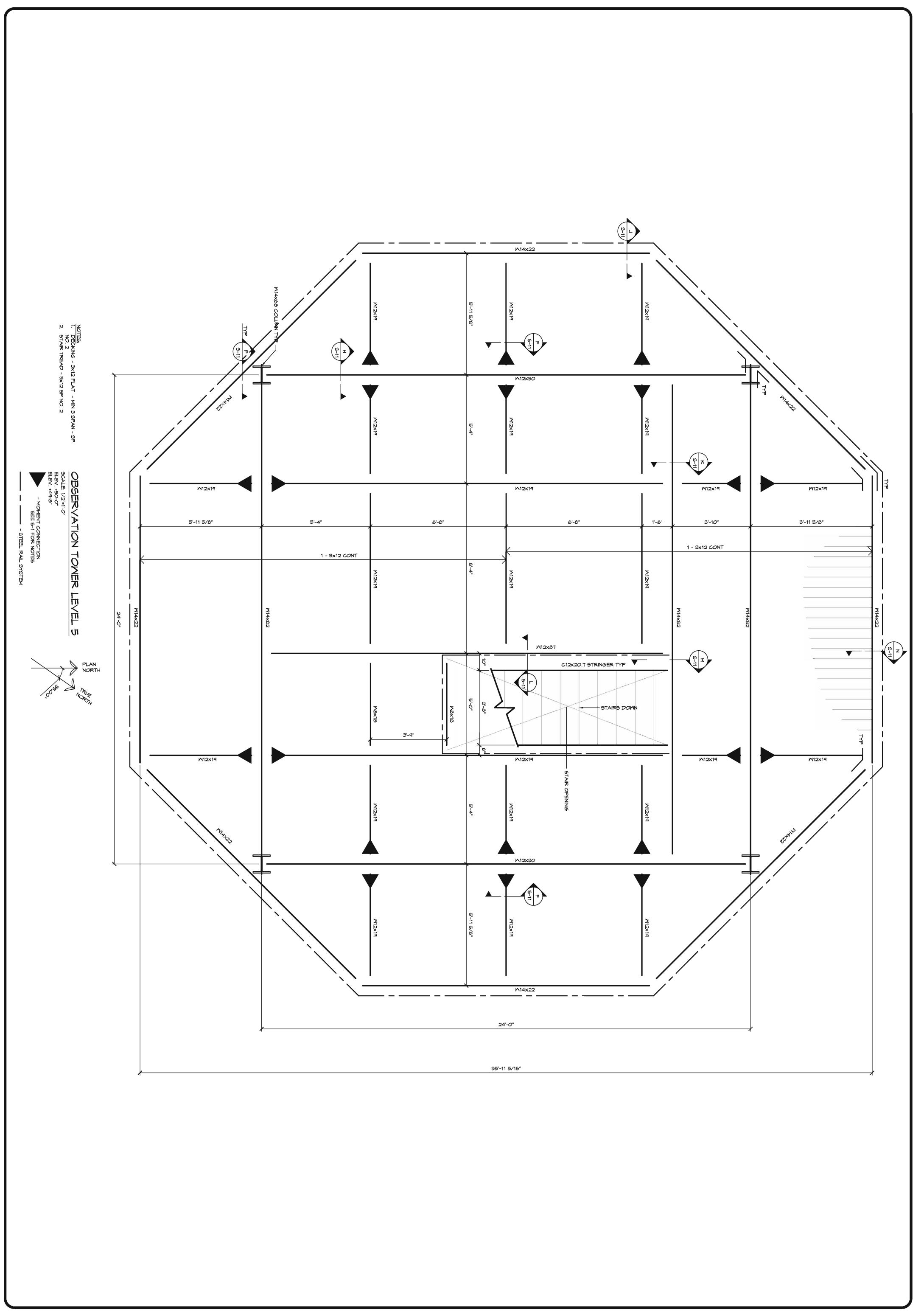


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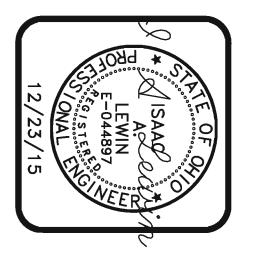




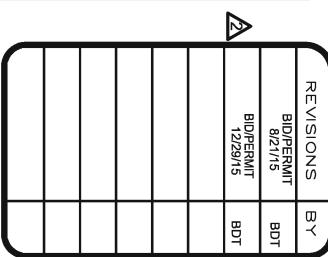


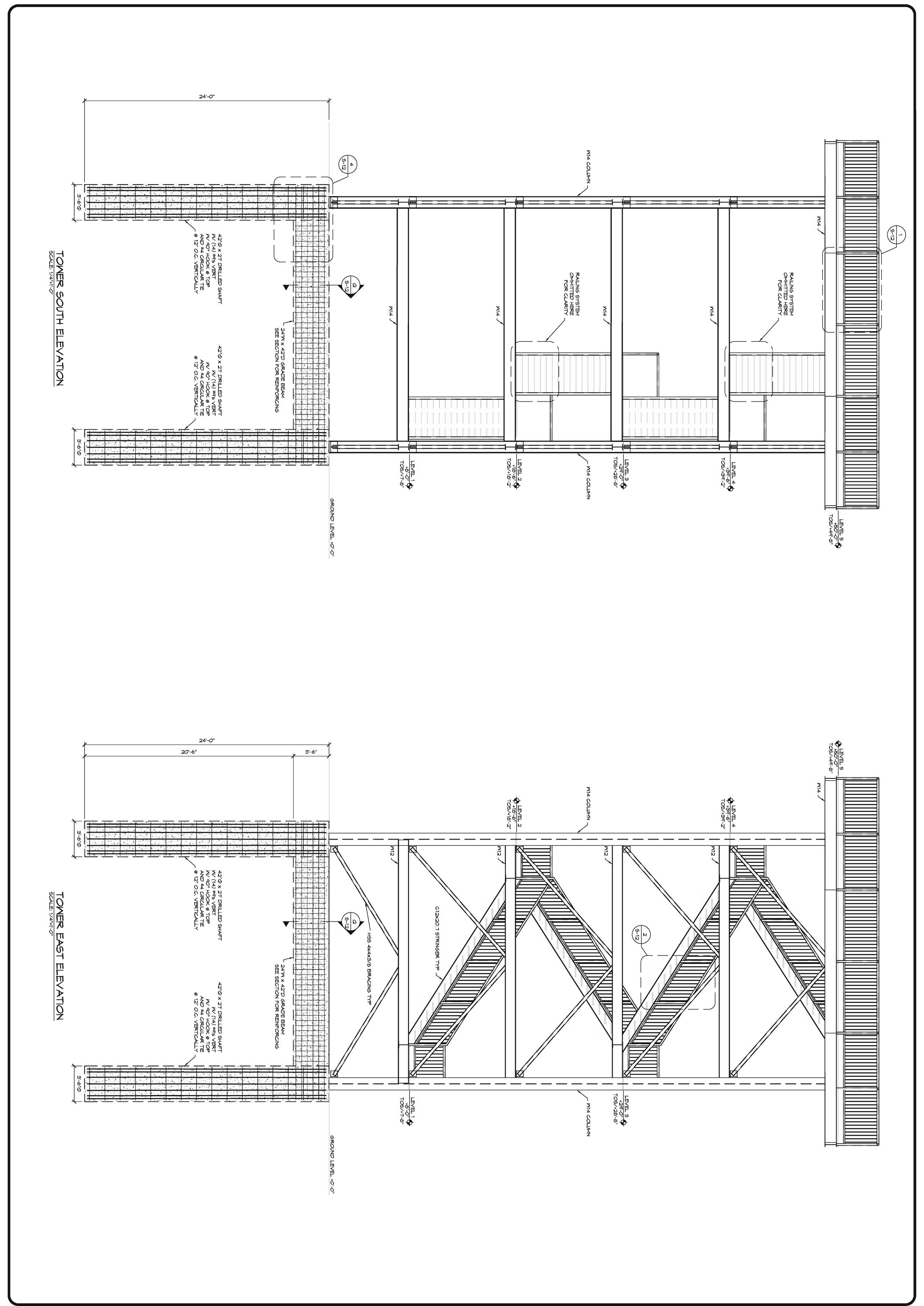


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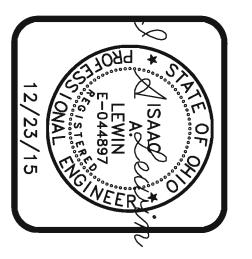




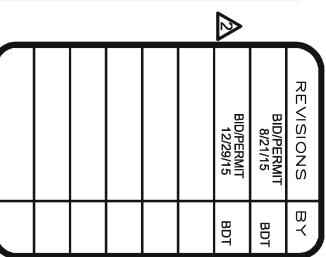


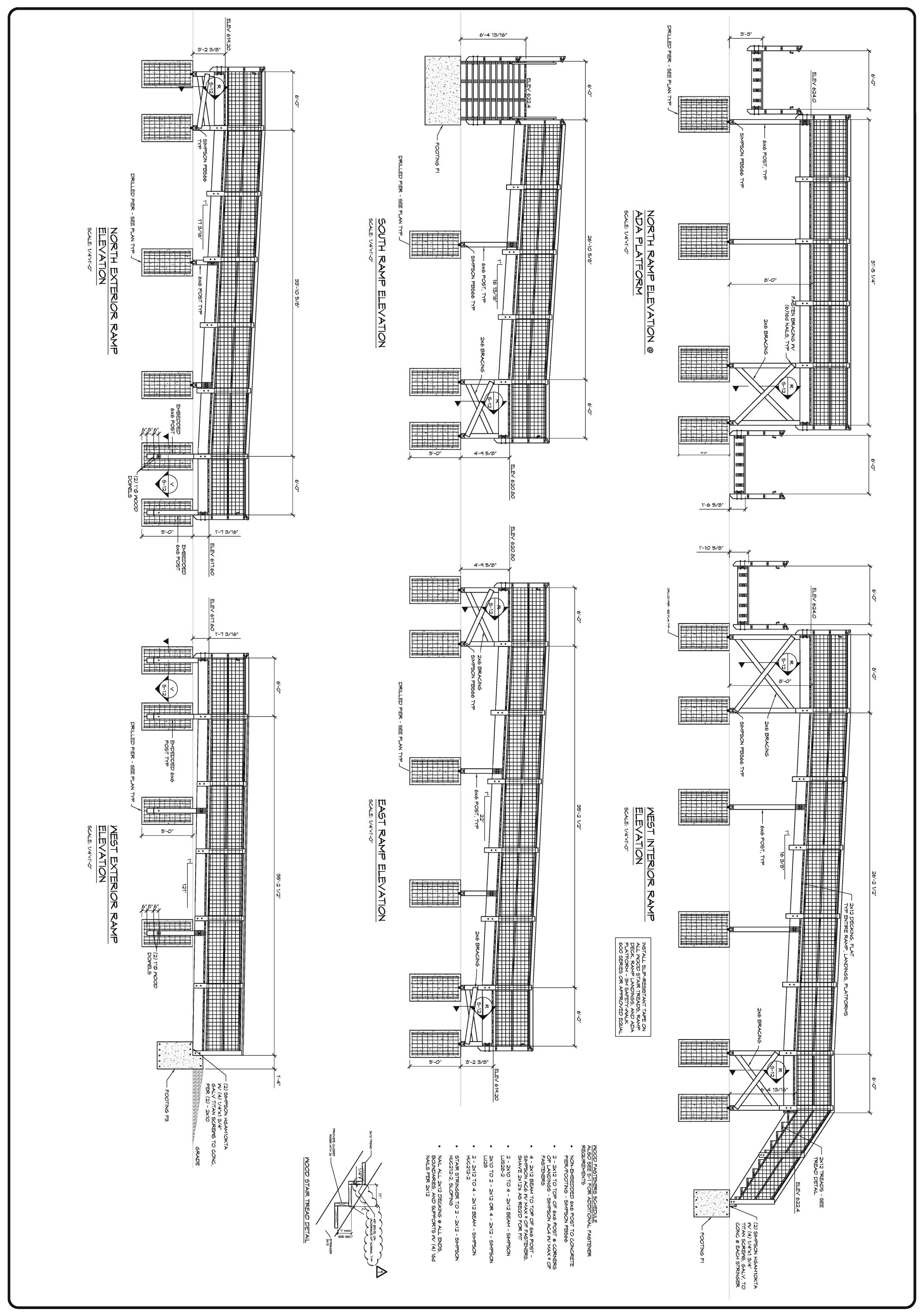


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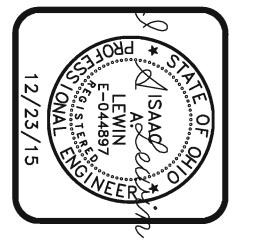




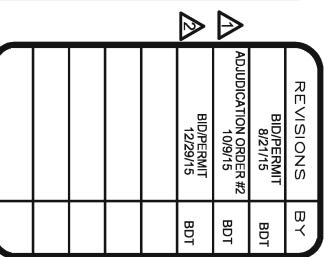


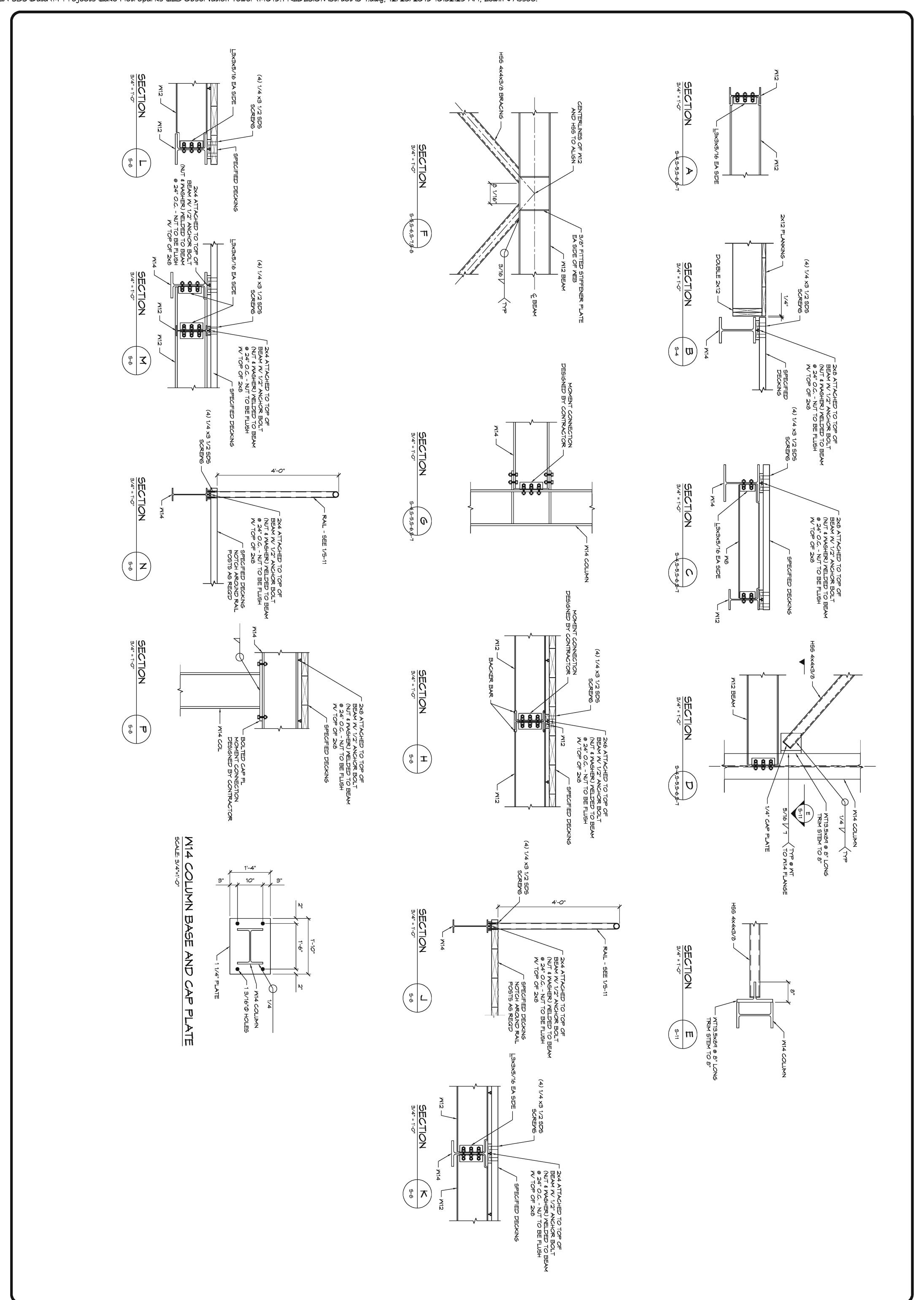


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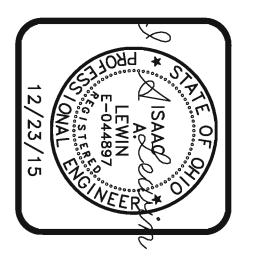




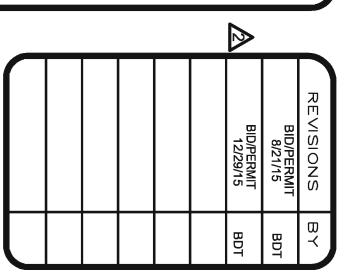


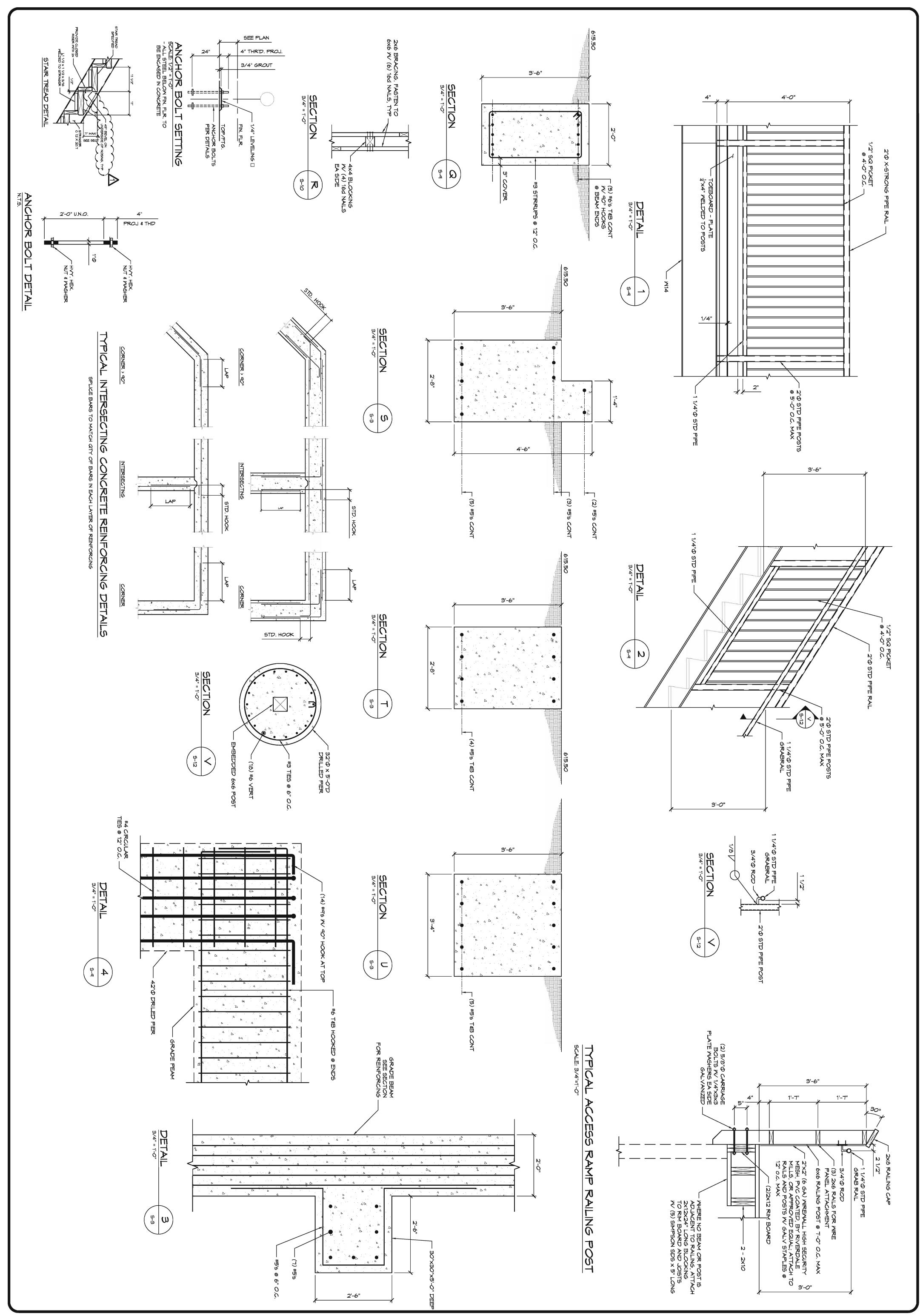


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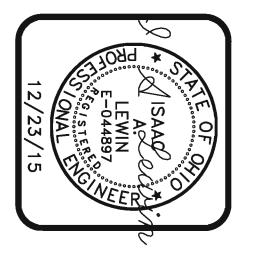




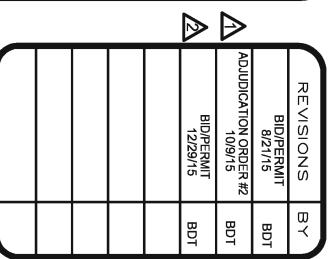


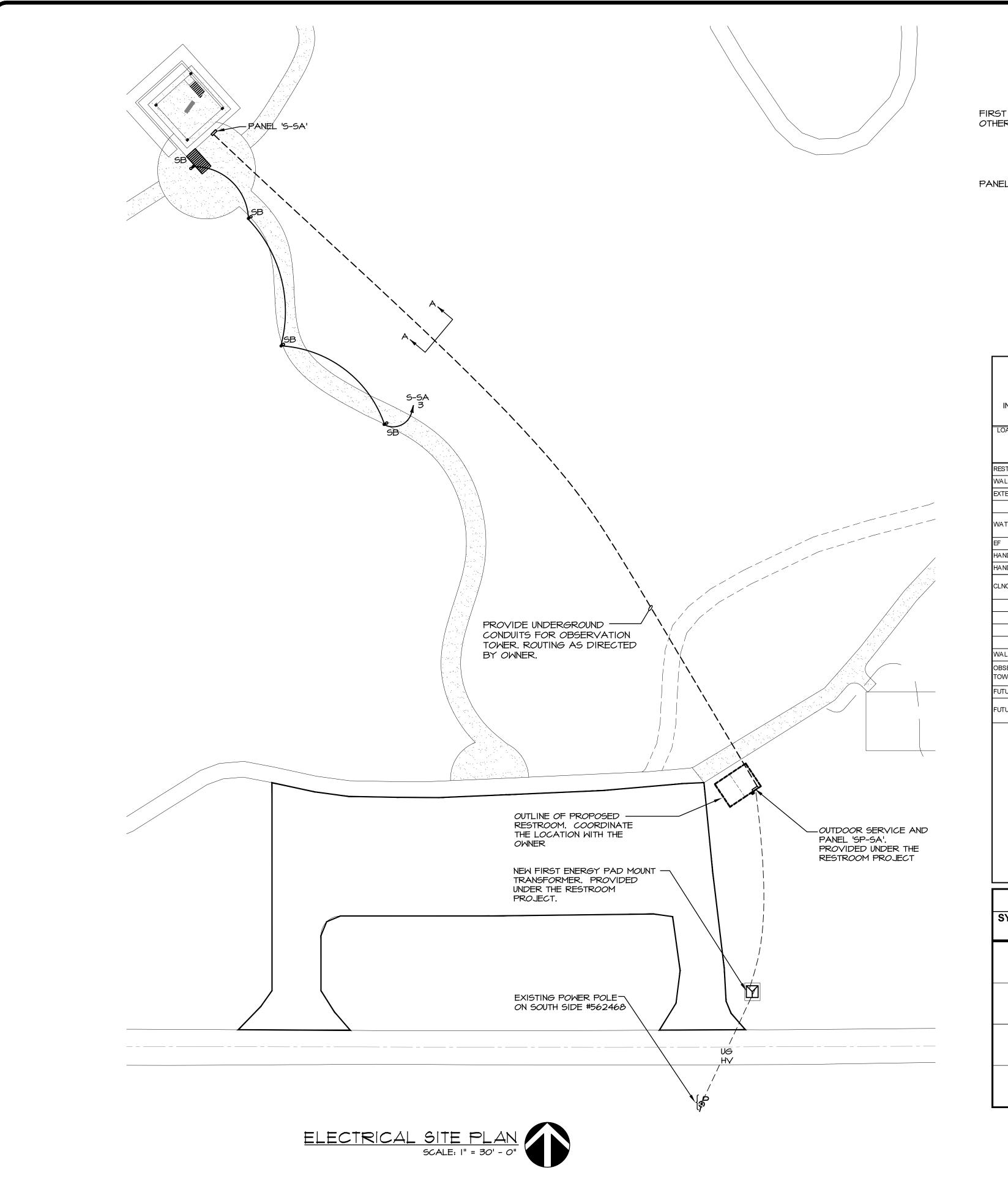


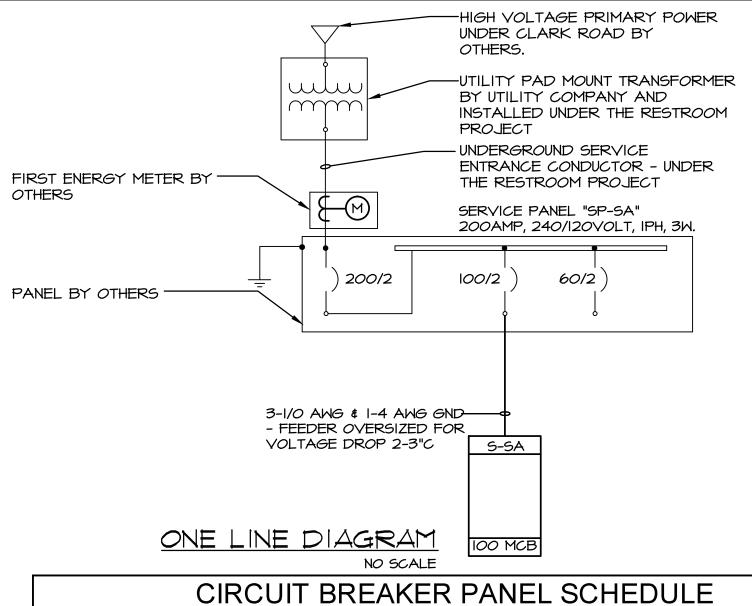
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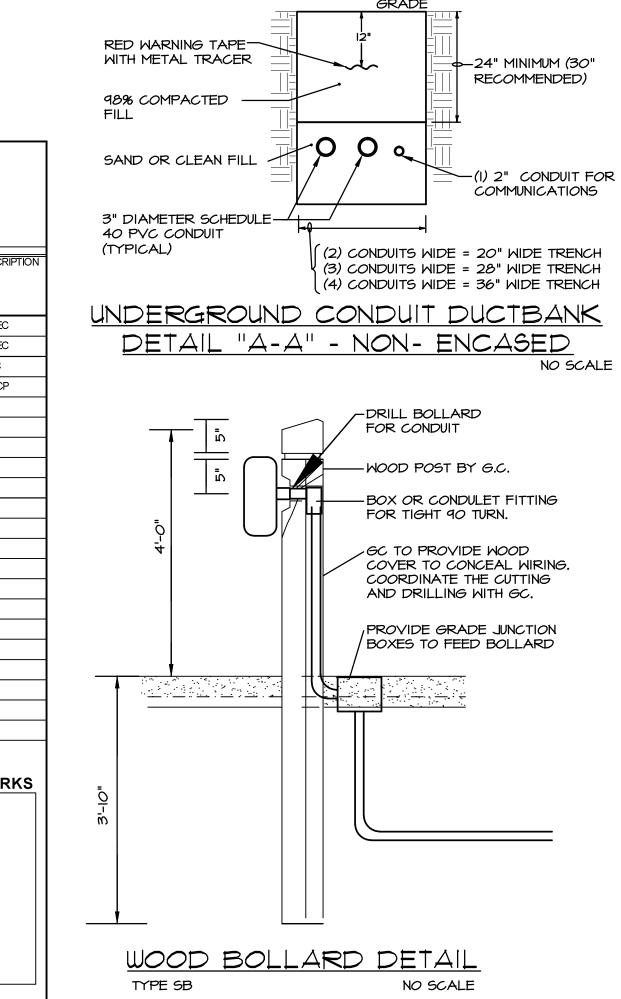








PANEL	SP.	-SA		,	AMP	20	00		` '	V	OLT	AGE	12	20/24	10V-	1Ø-3	W	_
INTERRUPTING CAPACITY	10,	000	_ SF	ACES	42	_ AN	IPS R	MS	SYM	10	0,000	_	MAIN	2(	00	MOUI	NTING	SURFACE
LOAD DESCRIPTION		AD	CONTII LOAD	·	LO.		CB / PHASE	CKT NO	Ø	CKT NO	CB / PHASE	LO		CONTII LOAD	·	LC	NUOUS DAD	LOAD DESCRIPTION
DECEMBER 101/10	ØA	ØB	ØA	ØB	ØA	ØB						ØA	ØB	ØA	ØB	ØA	ØB	EVERNOR DEC
RESTRM LIGHTS WALL PACKS	0.2	0.3					20/1	1	A B	2	20/1	1.0	1.0					EXTERIOR REC
EXTERIOR LIGHTS	0.1	0.3					20/1	3 5	А	6	20/1	1.0						EXTERIOR REC
EXTERIOR LIGHTS	0.1						20/1	7	В	8	20/1	1.0	1.0					ELEC RM RECP
			1.8				20/1	9	A	10	20/1		1.0					LEEC KIVITKEOF
WATER HEATER			1.0	1.8			20/2	11	В	12	20/1							
EF				1.0	1.2		20/1	13	A	14	20/1							
HAND DRYER						1.5		15	В	16	20/1							
HAND DRYER					1.5		20/1	17	A	18	20/1							
				1.2				19	В	20	20/1							
CLNG HEATERS			1.2				20/2	21	A	22	20/1							
							20/1	23	В	24	20/1							
							20/1	25	Α	26	20/1							
							20/1	27	В	28	20/1							
							20/1	29	Α	30	20/1							
WALKWAY BOLLARD		0.1					20/1	31	В	32	20/1							
OBSERVATION	0.1							33	Α	34	20/1							
TOWER		0.1					100/2	35	В	36	20/1							
FUTURE SIGN							20/1	37	Α	38	20/1							
							00/0	39	В	40	20/1							
FUTURE SHELTER							60/2	41	Α	42	20/1							
	0.4	0.5	3.0	3.0	2.7	1.5	KW	SUE	-тот	ALS	KW	2.0	2.0					
							1					1						
	CO	NNEC	IED LC	AD PE	R PHA	SE				DTAL			. 4	مرمرا		SCH	EDUI	LE REMARKS
		OF 4	^		1/14/0			C	NO			15		KWC				
	PHA 	SE A		.1 7.5	KWC AMP				L	DAC		62	2.9	AMP	5			
			07	7.5	AIVIP.	S		TO	TAI	DFN	//AND	12	3.9	kwc	١			
		SE B	7	.0	KWC			. Ŭ		DAC			.9 '.9	AMP				
	F (1)#A   	OL D		.0 3.3	AMP:							<u> </u>	. <del>ʊ</del>		J			



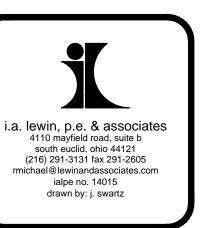
					LUMINAIRE SCHEDULE				
SYMBOL	TYPE	LUMIN	NA IRE	LAMP	DESCRIPTION	CELING	MANUFACTURER	CATALOG	REMARKS
		WATTS	VOLTS	TYPE		TYPE		NUM BER	
	A1	10	120	LED	10-WATT LED INDOR/OUTDOOR FLOOD LIGHTS, RED		LUMIERE	301120/12-	
					FILTER, 3000 K, INTEGRAL TRANSFORMER AND COLOR			CNK-F22	
_2					SELECTED BY OWNER				
	A2	20	120	LED	2- 10-WATT LED INDOR/OUTDOOR FLOOD LIGHTS, RED		LUMIERE	301120/12-	
					FILTER, 3000 K, INTEGRAL TRANSFORMER AND COLOR			CNK-F22	
$\mathcal{Q}$					SELECTED BY OWNER				
	SB	26	120	(1) 26W	42" HIGH BOLLARD ON 42" WOOD POST. REFER TO DETAIL	POST	SPECTRUM	DV06CF-26-	
				CFL 3500K	ON ARCHITECTURAL DRAWINGS. HOUSTING COLOR TO BE			EX-SM-CC	
Q					SELECTED BY ARCHITECT.				
	EM	5	120	LED	OUTDOOR BATTERY PACK WITH LED HEADS, NICKEL		ISOLITE	ELED-EM-BZ-	
					CADMIUM BATTERY, BRONZE HOUSING, AND COLD			CD	
유					WEATHER OPTION				







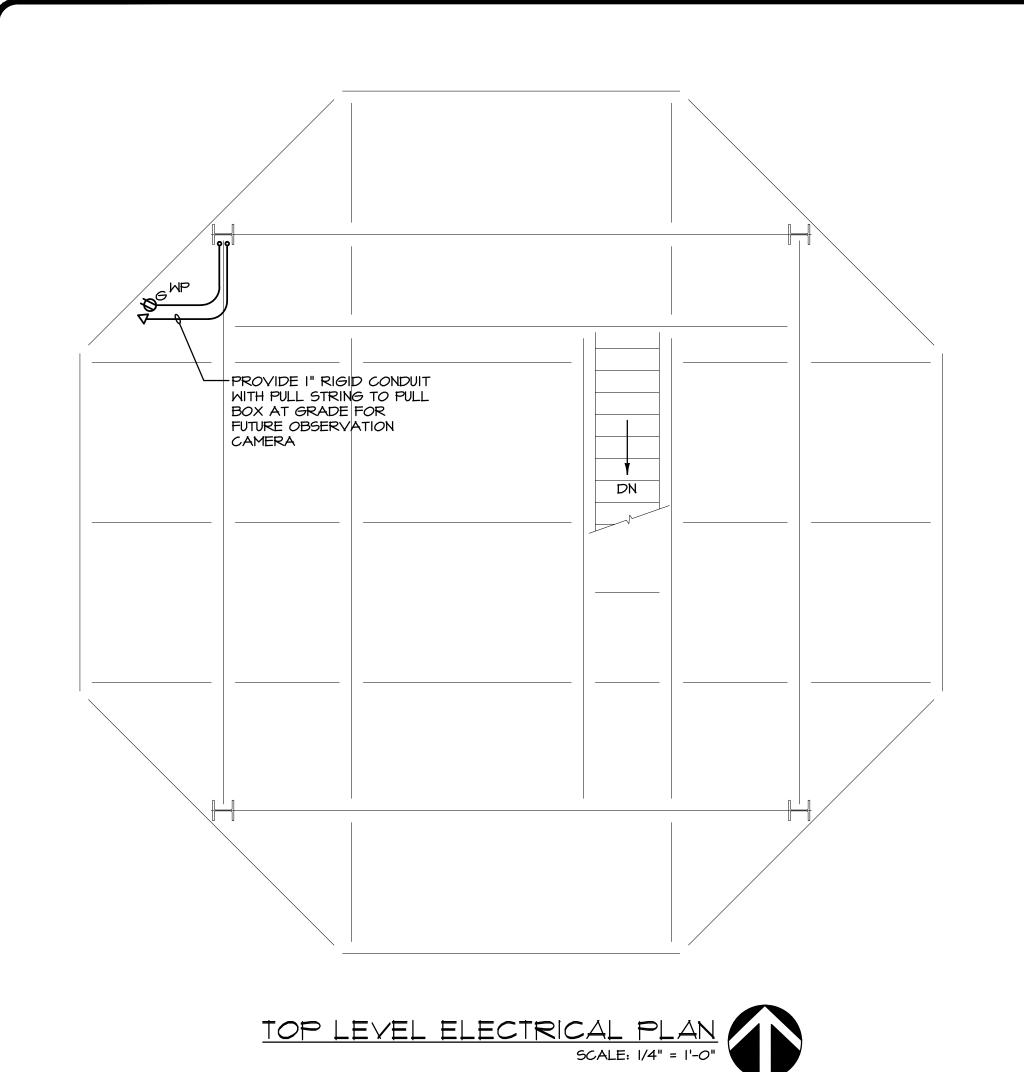
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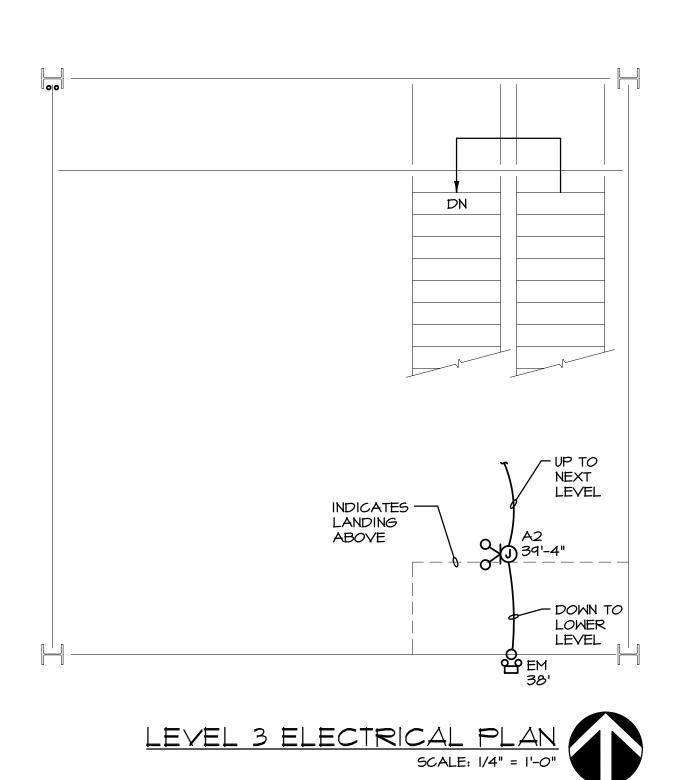


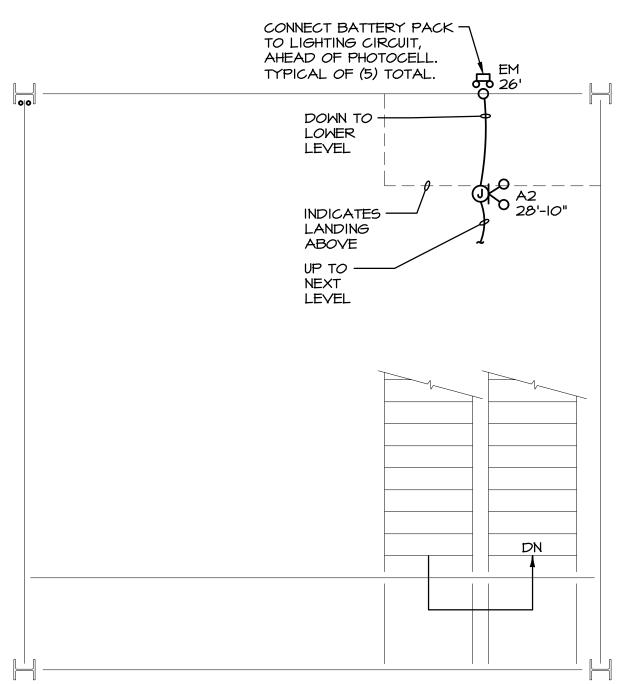


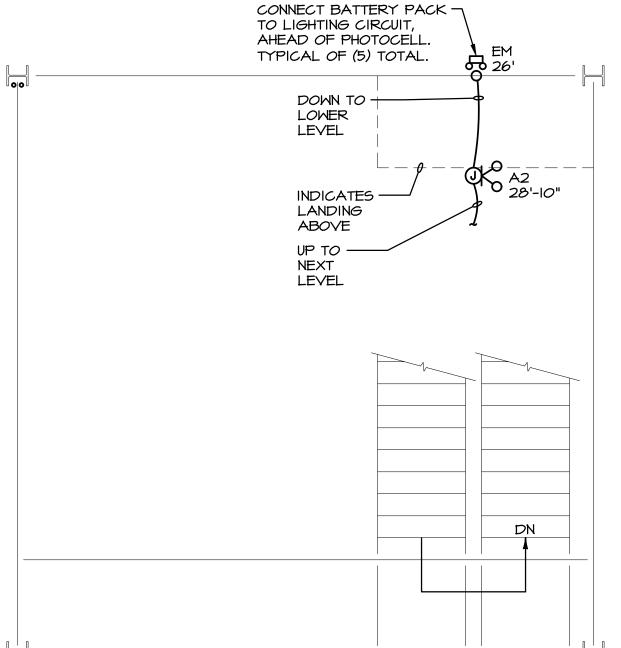
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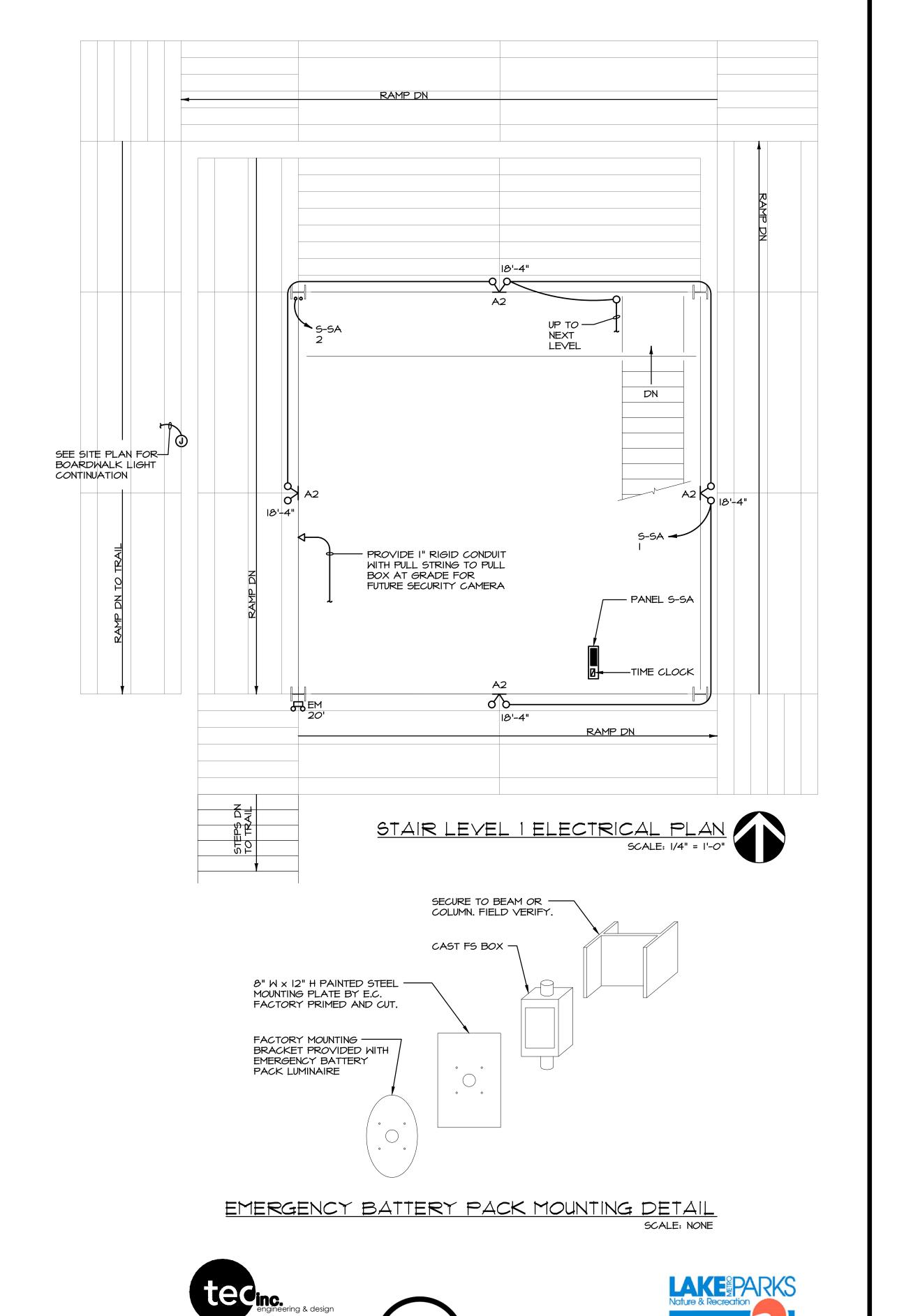












BRANDSTETTER
CARROLL INC
ARCHITECTS . ENGINEERS . PLANNERS

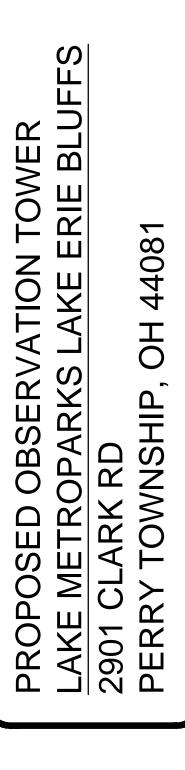
33851 Curtis Blvd., 216 Eastlake, Ohio 44095

www.tecinc1.com

cleveland | columbus

† 440.953.8760

f 440.953.1289



REVISIONS

BID/PERMIT 12/29/15

south euclid, ohio 44121 (216) 291-3131 fax 291-2605

drawn by: j. swartz

MORAN

DRAWN C.L.B. CHECKED K.F.M. DATE 8-21-2015 AS NOTED 14015



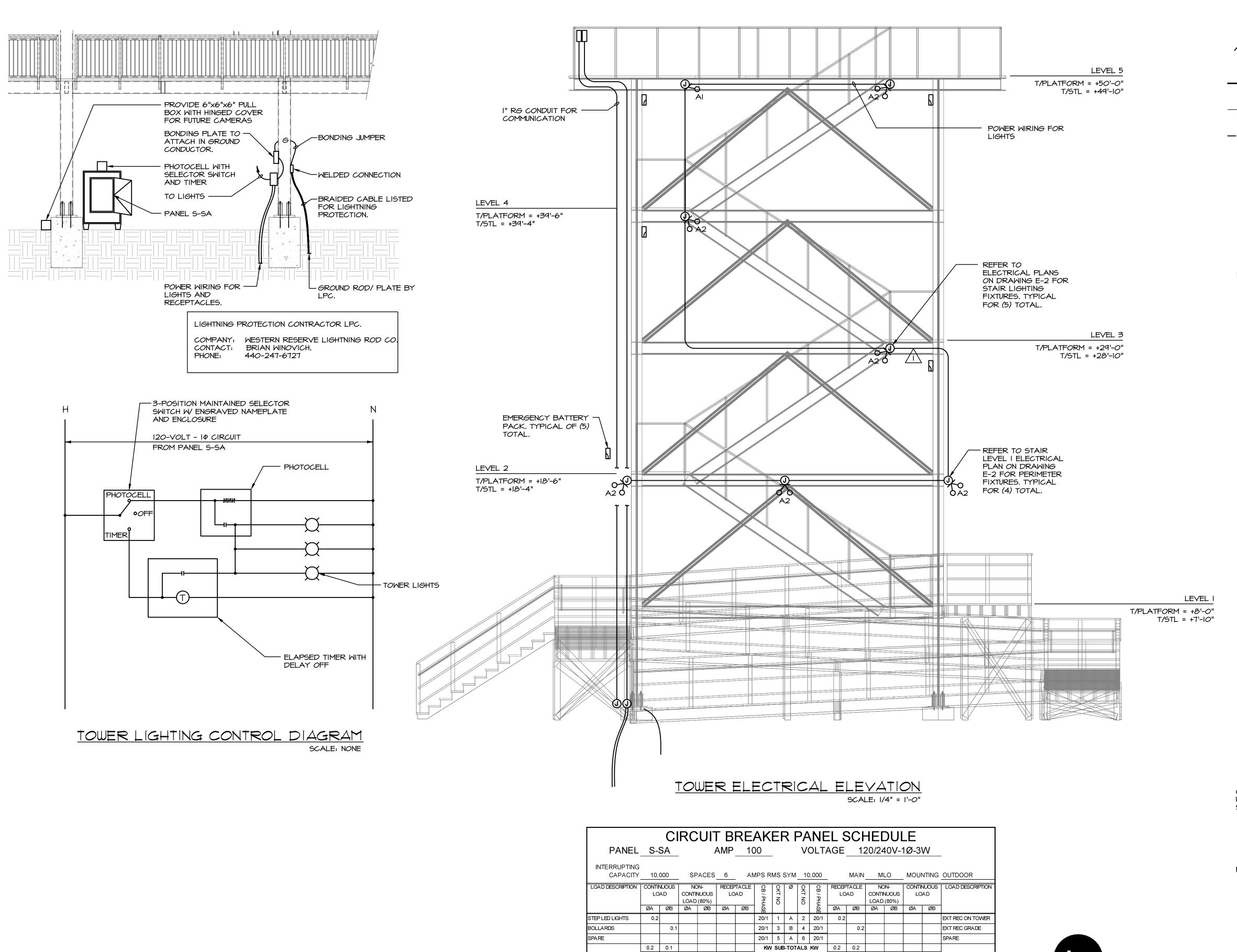
DOWN TO -LOWER LEVEL

AI 50'-0"

UP TO NEXT LEVEL

INDICATES -LANDING ABOVE

DN



CONNECTED LOAD PER PHASE

3.3 AMPS

2.5 AMPS

0.3 KWC

PHASE A 0.4 KWC

PHASE B

TOTAL

CONNECTED

LOAD

TOTAL DEMAND 0.7 KWD

0.7 KWC

2.9 AMPS

2.9 AMPS

## ELECTRICAL SYMBOLS

BRANCH CIRCUIT HOMERUN TO PANEL "A", CIRCUIT #3 AND #5. PROVIDE THE PROPER QUANTITY OF 12 AWG CONDUCTORS FOR THE CIRCUIT(S) INDICATED. A SEPARATE GROUNDING CONDUCTOR IS REQUIRED FOR ALL BRANCH CIRCUITS.

- HEAVY LINE WEIGHT INDICATES THIS EQUIPMENT IS NEW OR RELOCATED EXISTING UNLESS NOTED OTHERWISE

LIGHT LINE WEIGHT INDICATES THIS EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE

--- HEAVY DASHED LINE WEIGHT INDICATES EXISTING EQUIPMENT IS TO BE REMOVED UNLESS NOTED OTHERWISE

SINGLE POLE SWITCH - MOUNTING AT 48" A.F.F.

MOTION SENSOR SWITCH - CEILING MOUNTED LINE VOLTAGE.

DUPLEX RECEPTACLE - MOUNTING AT 18" A.F.F.

DUPLEX RECEPTACLE - GROUND FAULT CIRCUIT INTERRUPTER

JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED

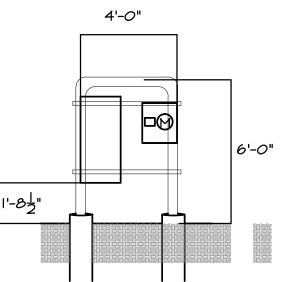
OUTLET FOR FUTURE CAMERA

E.T.R. EXISTING TO REMAIN

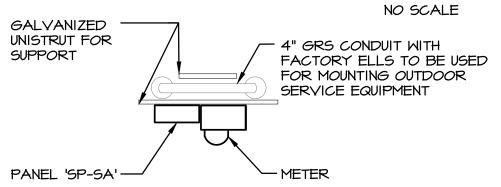
## GENERAL NOTES

A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL ORDINANCES.

- B. THE ELECTRICAL INSTALLATION MUST MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND ANY APPLICABLE STATE OR LOCAL CODES, AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- C. VERIFY THE EXACT LOCATION AND MOUNTING HEIGHTS OF WALL AND FLOOR MOUNTED DEVICES AND EQUIPMENT WITH THE ELEVATIONS, DETAILS, AND FLOOR PLANS BEFORE ROUGH-IN OF THE ELECTRICAL WORK. DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO ROUGH-IN.
- D. COORDINATE THE ELECTRICAL WORK WITH ALL TRADES ON SITE AND WITH THE OWNER'S REPRESENTATIVE. REFER TO THE PLANS AND DETAILS SHOWING THE ARCHITECTURAL AND STRUCTURAL, WORK TO PROPERLY PLAN AND INSTALL THE ELECTRICAL SYSTEMS AND EQUIPMENT. ALL LIGHTING FIXTURE LOCATIONS INDICATED ON THIS DRAWING SHALL BE VERIFIED WITH THE ENGINEER. ELECTRICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS TO DETERMINE EXACT LOCATIONS OF LIGHT FIXTURES.
- E. ALL WIRE FOR POWER, LIGHTING, AND CONTROL SYSTEMS SHALL BE 600 VOLT THHN-THWN, 90 DEGREE INSULATED AND SHALL BE COPPER. ALL WIRE FOR COMMUNICATIONS SYSTEMS SHALL BE
- F. ALL CONDUIT TO BE RIGID STEEL OR SCHEDULE 80 PVC THAT IS EXPOSED ON THE STRUCTURE WITH A MINIMUM CONDUIT SIZE OF 3/4". ANY CONDUIT BELOW GRADE SHALL BE PVC WITH A MINIMUM CONDUIT SIZE OF I".
- 6. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED OR LABELED.



## NEW ELEVATION DETAIL



## NEW SERVICE DETAIL FINISH WORK NO SCALE

SCHEDULE REMARKS

33851 Curtis Blvd., 216

Eastlake, Ohio 44095

www.tecinc1.com

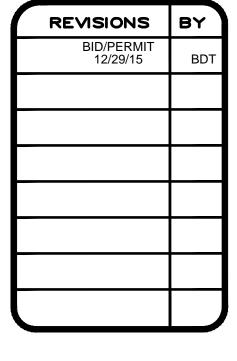
cleveland | columbus

† 440.953.8760

f 440.953.1289

- FILL WITH CONCRETE AND IMBED IN CONCRETE
- FOUNDATION.
- PRIME AND PAINT ALL METAL PARTS WITH TWO COATS OF OUTDOOR PAINT.







i.a. lewin, p.e. & associates south euclid, ohio 44121 (216) 291-3131 fax 291-2605 ialpe no. 14015 drawn by: j. swartz



N TOWER ERIE BLUFF 408 OBSERVATION OBSERVATION OF SOPARKS LAKE E HO LARK RD TOWNSHIP, OSED METR( PROPOS LAKE ME 2901 CL PERRY

C.L.B. CHECKED K.F.M. DATE 8-21-2015 AS NOTED 14015